

## Перечень библиографических описаний документов,

подготовленных РНЦ ИНИС  
и переданных в Международную систему INIS  
(*International Atomic Energy Agency IAEA-INIS*)  
в 2020 году

### Часть 2

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### *International Atomic Energy Agency*



**Determination of effectiveness of the method of magnetic resonance enterography with the use of alternative contrast agents for diagnostics of Crohn's disease by comparison with fibrocolonoscopy**

**S62**

*Brovin, D.A.; Otochkin, V.V.; Karasev, R.I. (Severo-Zapadnyj Gosudarstvennyj Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU))*

**Congress of the Russian Society of radiology**

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Kongress Rossijskogo obshchestva rentgenologov i radiologov

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Ministerstvo Zdravookhraneniya Rossijskoj Federatsii, Moscow (RU); Rossijskoe Obshchestvo

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244 p.

DIAGNOSIS; COMPUTERIZED TOMOGRAPHY; SMALL INTESTINE; INFLAMMATION; DIAGNOSTIC TECHNIQUES; COMPARATIVE EVALUATIONS; CONTRAST MEDIA

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**Complex radiologic study in diagnosis of neoplasms of the oropharyngeal zone at the stage of radio therapy planning**

**S62**

*Bubnova, E.V.; Lukina, O.V.; Litvinov, A.P. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. I.P. Pavlova, Sankt-Peterburg (RU))*

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Kompleksnoe luchevoe issledovanie v diagnostike novoobrazovaniy orofaringeal'noj zony na

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(RU)

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PHARYNX; ORAL CAVITY; NEOPLASMS; RADIOTHERAPY; PLANNING;  
COMPARATIVE EVALUATIONS; COMPUTERIZED TOMOGRAPHY; MAGNETIC  
RESONANCE; DIAGNOSIS

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### **The possibility of MP-visualization of funicular myelosis**

**S62**

*Bubnova, E.V.; Majsigova, A.A. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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SYSTEM DISEASES; TOMOGRAPHY; MAGNETIC RESONANCE; CONTRAST MEDIA;  
DIAGNOSIS

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### **ASL-perfusion in evaluation of glioblastoma residual tissue**

**S62**

*Bunak, M.S. (Moskovskij Oblastnoj Nauchno-Issledovatel'skij Klinicheskij Inst. im. M.F. Vladimirovskogo, Moscow (RU))*

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ASL-perfuziya v kachestve otsenki rezidual'noj tkani glioblastomy

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GLIOMAS; PATIENTS; SURGERY; RADIOTHERAPY; DIAGNOSTIC TECHNIQUES;  
COMPARATIVE EVALUATIONS

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## **Helical computed angiourography as the method of uretero-vasal conflict diagnostics**

**S62**

*Burlachenko, E.P.; Listratenko, M.A.; Zheleznyak, I.S.; Ipatov, V.V.; Bojkov, I.V. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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## **Computer and magnetic-resonant tomography in diagnostics of focal formations of liver**

**S62**

*Vakulenko, I.P.; Khatsko, V.V.; Momot, N.V.; Fominov, V.M. (Donetskij Natsional'nyj Meditsinskij Univ. im. M. Gor'kogo, Donetsk (UA))*

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### **Post-therapeutic whole body scanning after radioiodine ablation in patients with differentiated thyroid cancer**

**S62**

*Vasil'eva, E.B.; Geliashvili, T.M.; Vazhenin, A.V.; Guz', A.O.; Shchichko, A.S. (Chelyabinskij Oblastnoj Klinicheskij Tsentr Onkologii i Yadernoj Meditsiny, Chelyabinsk (RU); Yuzhno-Ural'skij Gosudarstvennyj Meditsinskij Univ., Chelyabinsk (RU))*

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### **Magnetic resonance perfusion in the evaluation of morphofunctional changes in multiple sclerosis**

**S62**

*Vasil'kiv, L.M. (Mezhdunarodnyj Tomograficheskij Tsentr, Novosibirsk (RU)); Tulupov, A.A. (Mezhdunarodnyj Tomograficheskij Tsentr, Novosibirsk (RU); Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU))*

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Magnitno-rezonansnaya perfuziya v otsenke morfofunktsional'nykh izmenenij pri rasseyannom skleroze

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PATIENTS; TOMOGRAPHY; MAGNETIC RESONANCE; BRAIN; COMPARATIVE  
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## **Obstruction index in radiological assessment of upper respiratory tract in children**

**S62**

*Vasil'kov, S.S. (Stomatologicheskaya Klinika «Veronika», Sankt-Peterburg (RU)); Viktorov, A.N. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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Indeks obstruktsii v rentgenologicheskoy otsenke verkhnikh dykhatel'nykh putej u detej

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## **Association of chronic adenoiditis and inflammatory changes in the peripheral sinuses of the nose in children**

**S62**

*Vasil'kov, S.S. (Stomatologicheskaya Klinika «Veronika», Sankt-Peterburg (RU)); Viktorov, A.N.; Abdullagatova, K.A. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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Assotsiatsiya khronicheskogo adenoidita i vospalitel'nykh izmenenij perifericheskikh pazukh nosa u detej

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CHILDREN; NOSE; RESPIRATORY SYSTEM DISEASES; INFLAMMATION;  
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## **New method of quantitative liver steatosis ultrasound evaluation in patients with non alcoholic fatty liver disease**

**S62**

*Venidiktova, D.Yu. (Smolenskij Gosudarstvennyj Meditsinskij Univ., Problemnaya Nauchno-Issledovatel'skaya Lab. «Diagnosticheskie Issledovaniya i Maloinvazivnye Tekhnologii», Smolensk (RU))*

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## **Assessment of ligamentization of the anterior cruciate ligament in the near and distant postoperative periods**

**S62**

*Veprintseva, E.A.; Zvezdkina, E.A.; Lesnyak, V.N.; Akhpashev, A.A.; Konov, K.S. (Federal'nyj Nauchno-Klinicheskij Tsentr Spetsializirovannykh Vidov Meditsinskoj Pomoshchi i Meditsinskikh Tekhnologij, Moscow (RU))*

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### **Limitations and difficulties in the determination of the stones of the urinary system in the dual-energy computer tomography**

**S62**

*Vinnichenko, S.S.; Aleksakhina, T.Yu. (Otraslevoj Kliniko-Diagnosticheskij Tsentr PAO «Gazprom», Moscow (RU))*

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### **Comparison of ultrasound and MRI results in the differential diagnosis of the focal kidney formations**

**S62**

*Vorotyntseva, N.S. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU)); Gajdukova, M.V. (Klinika «Ehkspert Tver'», Tver' (RU))*

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(RU)

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EFFICIENCY

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## **X-ray diagnostics of early rickets in premature children which were born in 22-28 weeks of the gestation period**

**S62**

*Vorotyntseva, N.S.; Novikova, A.D.; Vorotyntsev, S.G. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU))*

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ULTRASONOGRAPHY; COMPARATIVE EVALUATIONS

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## **Some differences between X-ray semiotics of focal tuberculous lesion of flat bones from other destructive bone lesions in children**

**S62**

*Gileva, V.A. (Sankt-Peterburgskij Nauchno-Issledovatel'skij Inst. Ftiziopul'monologii, Sankt-Peterburg (RU))*

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CHILDREN; TUBERCULOSIS; SKELETON; SKELETAL DISEASES; BIOMEDICAL RADIOGRAPHY; BONE TISSUES; COMPARATIVE EVALUATIONS; PATIENTS

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### **Diagnostic criteria of acute transverse myelitis exemplified in the clinical case**

**S62**

*Gladyshev, A.Yu.; Rostovtsev, M.V. (Gorodskaya Klinicheskaya Bol'nitsa im. M.E. Zhadkevicha, Moscow (RU)); Kruglov, O.V. (Univ. Pittsburga, Pittsburg (US)); Rostovtseva, T.M.*

*(Meditinskij Tsentr «Rehmsidiagnostika», Moscow (RU))*

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MAGNETIC RESONANCE; COMPUTERIZED TOMOGRAPHY; VERTEBRAE; HEMORRHAGE; MYELITIS; DIAGNOSIS; PATIENTS

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### **The value of low-dose computed tomography in screening lung cancer in the outpatient hospital**

**S62**

*Gombolevskij, V.A.; Lajpan, A.Sh.; Gelezhe, P.B. (Nauchno-Prakticheskij Tsentr Meditsinskoj Radiologii, Moscow (RU)) (and others)*

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### **Low-dose digital fluorography in diagnosis of phenotypic variants of chronic obstructive pulmonary disease**

**S62**

*Gorbunov, N.A.; Dergilev, A.P.; Kochura, V.I.; Manakova, Ya.L.; Sudarkina, A.V. (Novosibirskij  
Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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COMPARATIVE EVALUATIONS

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### **Clinical case: abnormal drainage of the anterior interventricular coronary vein**

**S62**

*Gorina, N.S.; Men'kov, I.A.; Zheleznyak, I.S. (Voenno-Meditsinskaya Akademiya im. S.M.  
Kirova, Sankt-Peterburg (RU))*

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244 p.  
COMPUTERIZED TOMOGRAPHY; MAN; VEINS; HEART; VASCULAR DISEASES;  
DIAGNOSIS

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### **Possible contrast magnetic resonance angiography after subtotal embolization of aneurysms of cerebral vessels**

**S62**

*Goryushina, S.V.; Tarasenko, L.L.; Ivankova, E.O. (Surgutskaya Klinicheskaya  
Travmatologicheskaya Bol'nitsa, Surgut (RU))*

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Vozmozhnosti beskontrastnoj magnitno-rezonansnoj angiografii posle subtotal'noj ehmbolizatsii  
anevrizm sosudov golovnogo mozga

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BIOMEDICAL RADIOGRAPHY; BLOOD VESSELS; MAGNETIC RESONANCE;  
VASCULAR DISEASES; BRAIN; PATIENTS; TOMOGRAPHY; ACCURACY;  
COMPARATIVE EVALUATIONS

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### **The capability of magnetic resonance imaging in identification of leukemic bone changes**

**S62**

*Griva, N.A.; Bubnova, E.V. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im.  
Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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Vozmozhnosti magnitno-rezonansnoj tomografii v vyyavlenii izmenenij v kostyakh skeleta pri  
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244 p.

TOMOGRAPHY; MAGNETIC RESONANCE; PATIENTS; SKELETON; LEUKEMIA;  
DIAGNOSIS; BONE MARROW; COMPARATIVE EVALUATIONS

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**Possibilities of magnetic resonance imaging with dynamic contrast enhancement  
to determine the effectiveness of neoadjuvant chemotherapy for axillary lymph  
nodes in patients with breast cancer**

**S62**

*Grishko, P.Yu.; Petrova, A.S.; Komyakhov, A.V.; Mishchenko, A.V. (Natsional'nyj Meditsinskij  
Issledovatel'skij Tsentr Onkologii im. N.N. Petrova, Sankt-Peterburg (RU))*

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Vozmozhnosti magnitno-rezonansnoj tomografii s dinamicheskim kontrastnym usileniem v  
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TOMOGRAPHY; MAGNETIC RESONANCE; LYMPH NODES; COMPARATIVE  
EVALUATIONS; DIAGNOSIS; SENSITIVITY; ACCURACY

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**Magnetic resonance imaging with dynamic contrast enhancement in the  
assessment of axillary lymph nodes after neoadjuvant chemotherapy in patients  
with breast cancer**

**S62**

*Grishko, P.Yu.; Petrova, A.S.; Komyakhov, A.V.; Mishchenko, A.V. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Onkologii im. N.N. Petrova, Sankt-Peterburg (RU))*

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Magnitno-rezonansnaya tomografiya s dinamicheskim kontrastnym usileniem v otsenke podmyshechnykh limfaticeskikh uzlov pri rake molochnoj zhelezy posle neoad'yuvantnoj khimioterapii

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CONTRAST MEDIA; CHEMOTHERAPY; TOMOGRAPHY; MAGNETIC RESONANCE;

COMPARATIVE EVALUATIONS

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**CMRI analysis of myocardium in patients with hypertrophic cardiomyopathy associated with atrial fibrillation**

**S62**

*Darij, O.Yu.; Aleksandrova, S.A.; Yurpol'skaya, L.A.; Makarenko, V.N. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Serdechno-Sosudistoj Khirurgii im. A.N. Bakuleva, Moscow (RU))*

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MRT v vizualizatsii izmenenij miokarda u patsientov s gipertroficheskoj kardiomiopatiej, assotsirovannoj s fibrillyatsiej predserdiya

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PATIENTS; CARDIOVASCULAR DISEASES; TOMOGRAPHY; MAGNETIC

RESONANCE; DIAGNOSIS; CONTRAST MEDIA; COMPARATIVE EVALUATIONS;

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## **Dynamic MRI of the temporomandibular joint – initial experience**

**S62**

*Dergilev, A.P.; Sudarkina, A.V. (Dorozhnaya Klinicheskaya Bol'nitsa na Stantsii Novosibirsk – Glavnyj OAO «Rossijskie Zheleznye Dorogi», Novosibirsk (RU); Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU)); Gorbunov, N.A.; Zadil'skaya, K.Yu. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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TOMOGRAPHY; MAGNETIC RESONANCE; BONE JOINTS; JAW; SKULL; PATIENTS; DIAGNOSTIC TECHNIQUES

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## **The first clinical experience of contrast enhanced spectral mammography (CESM ) in the diagnosis of nonpalpable breast cancer**

**S62**

*Didenko, V.V.; Smirnov, I.V. (Moskovskij Klinicheskij Nauchnyj Tsentr im. A.S. Loginova, Moscow (RU); Kliniko-Diagnosticheskij Tsentr MEDSI na Krasnoj Presne, Moscow (RU)); Kurbatov, V.P. (Kliniko-Diagnosticheskij Tsentr MEDSI na Krasnoj Presne, Moscow (RU)); Manujlova, O.O. (Moskovskij Klinicheskij Nauchnyj Tsentr im. A.S. Loginova, Moscow (RU))*

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Pervyj prakticheskij opyt primeneniya kontrastnoj dvuehnergeticheskoj spektral'noj mammografii v utochnyayushchej diagnostike nepal'piruemogo raka molochnoj zhelezy

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PATIENTS; WOMEN; NEOPLASMS; MAMMARY GLANDS; BIOMEDICAL RADIOGRAPHY; CONTRAST MEDIA; DIAGNOSTIC TECHNIQUES; DIAGNOSIS; EFFICIENCY

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### **CT-angiopulmonography in the diagnosis of pulmonary embolism**

**S62**

*Dmitriev, A.A.; Bogdanova, E.O.; Sobko, V.Yu.; Karpenko, A.K. (Konsul'tativno-Diagnosticheskij Tsentr s Poliklinikoj Upravleniya Delami Prezidenta Rossijskoj Federatsii, Sankt-Peterburg (RU))*

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COMPUTERIZED TOMOGRAPHY; BIOMEDICAL RADIOGRAPHY; ARTERIES; LUNGS; CONTRAST MEDIA; EMBOLI; DIAGNOSIS; COMPARATIVE EVALUATIONS

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### **Magnetic resonance imaging as a method of controlling current of disease and efficiency conservative treatment a gestation pyelonephritis**

**S62**

*Dorovskikh, G.N. (Omskij Gosudarstvennyj Meditsinskij Univ., Omsk (RU); Gorodskaya Klinicheskaya Bol'nitsa Skoroj Meditsinskoj Pomoshchi No.1, Omsk (RU)); Sedel'nikov, S.S. (Gorodskaya Klinicheskaya Bol'nitsa Skoroj Meditsinskoj Pomoshchi No.1, Omsk (RU))*

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Magnitno-rezonansnaya tomografiya kak metod rannego kontrolya techeniya i ehffektivnosti konservativnogo lecheniya pielonefrita u beremennykh

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PREGNANCY; WOMEN; PATIENTS; NEPHRITIS; TOMOGRAPHY; MAGNETIC RESONANCE; COMPARATIVE EVALUATIONS; DIAGNOSIS

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**Comparative evaluation of radiation formation fusion in the application of carbon-carbon implants and titanium mesh in patients with degenerative diseases and traumatic injuries of the spine**

**S62**

*Dorosh, A.A.; Baulin, I.A.; Vishnevskij, A.A. (Sankt-Peterburgskij Nauchno-Issledovatel'skij Inst. Ftiziopul'monologii, Sankt-Peterburg (RU))*

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Sravnitel'naya lucheвая otsenka formirovaniya spondilodeza pri primenenii uglerod-uglerodnykh implantatov i titanovykh blok-reshetok u bol'nykh s degenerativnymi zabolevaniyami i travmaticheskimi povrezhdeniyami pozvonochnika

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VERTEBRAE; SKELETAL DISEASES; INJURIES; IMPLANTS; CARBON;

COMPARATIVE EVALUATIONS; COMPUTERIZED TOMOGRAPHY; PATIENTS

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**Sinusitis is a common finding with MRI in patients with the presence of cephalgia**

**S62**

*Druzhinin, K.V.; Borondzhiyan, T.S.; Anikanova, O.A. (Rostovskaya Klinicheskaya Bol'nitsa Yuzhnogo Okruzhnogo Meditsinskogo Tsentra, Rostov-na-Donu (RU))*

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MAGNETIC RESONANCE; DIAGNOSIS; PATHOLOGICAL CHANGES; COMPARATIVE  
EVALUATIONS

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### **Magnetic resonance mammography with dynamic contrast enhancement before and after lipofilling**

**S62**

*Dubrovskaya, N.S.; Chernova, O.N.; Vazhenin, A.V.; Vasil'ev, V.S. (Chelyabinskij Oblastnoj Klinicheskij Tsentr Onkologii i Yadernoj Meditsiny, Chelyabinsk (RU))*

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TOMOGRAPHY; MAGNETIC RESONANCE; CONTRAST MEDIA; NEOPLASMS;  
MAMMARY GLANDS; PLASTIC SURGERY; COMPARATIVE EVALUATIONS; LIPIDS

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### **Automated breast volume sonography (ABVS) for breast cancer detection**

**S62**

*Efremova, M.P.; Gazhonova, V.E. (Tsentral'naya Gosudarstvennaya Meditsinskaya Akademiya, Moscow (RU); Ob''edinennaya Bol'nitsa s Poliklinikoj, Moscow (RU))*

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DIAGNOSIS; DIAGNOSTIC TECHNIQUES; COMPARATIVE EVALUATIONS;  
EFFICIENCY; AGE DEPENDENCE

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## **Clinical and statistical characteristics of radiology service in persons aged 50-65 years of the primary health**

**S62**

*Zhdankina, A.O. (Rossijskij Univ. Druzhy Narodov, Moscow (RU))*

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BIOMEDICAL RADIOGRAPHY; AGE GROUPS; PATIENTS; DIAGNOSIS;  
COMPARATIVE EVALUATIONS; DISEASES

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## **Capabilities of computed tomography in identification of aneurysm rupture of abdominal aorta and its predictors**

**S62**

*Zabavskaya, O.A.; Muslimov, R.Sh.; Sharifullin, F.A.; Barmina, T.G.; Mikhajlov, I.P. (Nauchno-Issledovatel'skij Inst. Skoroj Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))*

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Vozmozhnosti komp'yuternoj tomografii pri vyyavlenii razryva anevrizm bryushnoj aorty i ego prediktorov

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**Applying computed tomography in postoperative period for comparative assessment of methods for repositioning of heel bone fragments**

**S62**

*Zabavskaya, O.A.; Kalenskij, V.O.; Sharifullin, F.A.; Ivanov, P.A. (Nauchno-Issledovatel'skij Inst. Skoroj Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))*

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**Computed tomography in diagnostics of spontaneous esophageal ruptures**

**S62**

*Zagorul'ko, N.A.; Kudryavtseva, A.V.; Zheleznyak, I.S.; Lytkina, S.I.; Ipatov, V.V. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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## **Evaluation of the location of the temporomandibular joint articular disk in asymptomatic patients according to CT**

**S62**

*Zadil'skaya, K.Yu.; Dergilev, A.P.; Manakova, Ya.L. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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COMPUTERIZED TOMOGRAPHY; SKULL; BONE JOINTS; PATIENTS; DIAGNOSIS; ALGORITHMS

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## **Modern radiology for the solution of cardiac problems in patients with a rare anomaly of the aortic arch and brachiocephalic vessels**

**S62**

*Zakharova, O.E.; Plakhova, V.V. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Serdechno-Sosudistoj Khirurgii im. A.N. Bakuleva, Moscow (RU))*

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Sovremennaya lucheвая diagnostika dlya resheniya kardiokhirurgicheskikh zadach u patsientov s redkimi anomaliyami dugi aorty i brachiotsefal'nykh sosudov

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PATIENTS; COMPUTERIZED TOMOGRAPHY; RADIOGRAPHY; CONTRAST MEDIA; ARTERIES; VASCULAR DISEASES; DIAGNOSIS; CHILDREN

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**Analysis of the technical condition of X-ray radiological equipment in Russian clinics based on the results of periodic monitoring of operational parameters**

**S62**

*Zelikman, M.I. (Rossijskaya Meditsinskaya Akademiya Nepreryvnogo Professional'nogo Obrazovaniya, Moscow (RU)); Kruchinin, S.A.; Mikheev, D.V. (OOO «Konstruktorskoe Byuro RentgenTest», Moscow (RU))*

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Analiz tekhnicheskogo sostoyaniya rentgenoradiologicheskogo oborudovaniya v LPU RF po rezul'tatam periodicheskogo kontrolya ehkspluatatsionnykh parametrov

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BIOMEDICAL RADIOGRAPHY; X-RAY EQUIPMENT; COMPUTERIZED TOMOGRAPHY; EFFICIENCY; RELIABILITY

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**Possibilities of using a new radiopharmaceutical on the basis of labeled <sup>99m</sup>Tc glucose derivative in the diagnosis of breast cancer**

**S62**

*Zel'chan, R.V.; Medvedeva, A.A.; Sinilkin, I.G.; Bragina, O.D.; Chernov, V.I. (Tomskij Natsional'nyj Issledovatel'skij Meditsinskij Tsentr, Tomsk (RU))*

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Vozmozhnosti primeneniya novogo radiofarmatsevticheskogo preparata na osnove mechennoj <sup>99m</sup>Ts proizvodnoj glyukozy v diagnostike raka molochnoj zhelezy

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GLUCOSE; ORGANIC SULFUR COMPOUNDS; INTRAVENOUS INJECTION;  
SCINTISCANNING; SENSITIVITY

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## **Clinical and radial features of oroantral communications of odontogenic perforated maxillary sinusitis**

**S62**

*Zubareva, A.A.; Yaremenko, A.I.; Lysenko, A.V.; Zubarev, D.V. (Pervyj Sankt-Peterburgskij Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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Kliniko-luchevye kharakteristiki oroantral'nykh soobshchenij pri odontogennykh perforativnykh verkhnechelyustnykh sinusitakh

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COMPUTERIZED TOMOGRAPHY; SINUSES; NOSE; ORAL CAVITY; X-RAY  
RADIOGRAPHY; SKELETAL DISEASES; COMPARATIVE EVALUATIONS

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## **The diagnostic capabilities of positron emission computed tomography with the <sup>68</sup>Ga-labelled prostate specific membrane antigen in patients with low prostate specific antigen-values after radical prostatectomy**

**S62**

*Ignatova, M.V.; Tlostanova, M.S.; Stanzhevskij, A.A. (Rossijskij Nauchnyj Tsentri Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Vozmozhnosti sovmeshchennoj pozitronno-ehmissionnoj s komp'yuternoj tomografiej s prostatpetsificheskim membrannym antigenom, mechenym galliem-68 u patsientov s minimal'nym urovnem prostatpetsificheskogo antigena posle radikal'noj prostatektomii

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## **The differential X-ray possibility of cavitary peripheral lung cancer and revealed lung abscess**

**S62**

*Ilyasova, E.B.; Chekhonatskaya, M.L.; Kondrat'eva, O.A. (Saratovskij Gosudarstvennyj Meditsinskij Univ. im. V.I. Razumovskogo, Saratov (RU))*

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Vozmozhnosti differentsial'noj rentgenodiagnostiki polostnoj formy perifericheskogo raka i vskryvshegosya abstsessa legkikh

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BIOMEDICAL RADIOGRAPHY; LUNGS; NEOPLASMS; DIAGNOSIS; COMPTON SCATTERING TOMOGRAPHY; COMPARATIVE EVALUATIONS; PATIENTS; ABSCESSSES

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## **Complex diagnostic imaging with positron-emission and computed tomography with sonography in patients with malignant lymphomas**

**S62**

*Ipatov, V.V.; Mostovaya, O.T.; Peregudova, E.L.; Tataritskij, N.I.; Bojkov, I.V.; Zheleznyak, I.S.; Koval'chuk, G.V.; Ivanova, L.I.; Rodin, I.V. (Voенno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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Edinyj diagnosticheskiy kompleks metodov sovmeshchennoj pozitronno-ehmissionnoj i komp'yuternoj tomografii i ul'trazvukovoj diagnostiki u bol'nykh zlokachestvennymi limfomami  
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### **Topography of accessory mental foramina in mandible**

**S62**

*Kabak, S.L.; Savrasova, N.A.; Zhuravleva, N.V.; Mel'nichenko, Yu.M. (Belorusskij Gosudarstvennyj Meditsinskij Univ., Minsk (BY))*

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### **Indications for bone scan with $^{99m}\text{Tc}$ -MDP after $^{123}\text{I}$ -MIBG scintigraphy in patients with neuroblastoma (NB)**

**S62**

*Kajlash; Kireeva, E.D.; Krupina, I.S.; Likar', Yu.N. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Detskoj Gematologii, Onkologii i Immunologii im. Dmitriya Rogacheva, Moscow (RU))*

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Pokazaniya dlya stsintigrafii s  $^{99m}\text{Tc}$ -fosfatnymi kompleksami posle stsintigrafii s  $^{123}\text{I}$ -MJBG u patsientov s nejoblastomoj

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NEOPLASMS; CHILDREN; SCINTISCANNING; LABELLED COMPOUNDS; IODINE 123; TECHNETIUM 99; PHOSPHATES; COMPARATIVE EVALUATIONS; EFFICIENCY; METASTASES; DIAGNOSIS

---

## **Virtual non-enhanced CT images in estimation of density of liver parenchyma**

**S62**

*Karlova, E.A. (Krasnoyarskij Gosudarstvennyj Meditsinskij Univ. imeni Professora V.F. Vojno-Yasenetskogo, Krasnoyarsk (RU)); Krasnoyarskij Kraevoj Klinicheskij Onkologicheskij Dispanser imeni A.I. Kryzhanovskogo, Krasnoyarsk (RU); Federal'nyj Sibirskij Nauchno-Klinicheskij Tsentr, Krasnoyarsk (RU)); Savel'eva, A.S. (Krasnoyarskij Gosudarstvennyj Meditsinskij Univ. imeni Professora V.F. Vojno-Yasenetskogo, Krasnoyarsk (RU); Federal'nyj Sibirskij Nauchno-Klinicheskij Tsentr, Krasnoyarsk (RU)); Zhestovskaya, S.I.; Tyazhel'nikova, Z.M. (Krasnoyarskij Gosudarstvennyj Meditsinskij Univ. imeni Professora V.F. Vojno-Yasenetskogo, Krasnoyarsk (RU)); Merkulova, N.A.; Tsygankov, A.V. (Krasnoyarskij Kraevoj Klinicheskij Onkologicheskij Dispanser imeni A.I. Kryzhanovskogo, Krasnoyarsk (RU))*

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Virtual'nye nekontrastnye izobrazheniya v otsenke plotnosti parenkhimy pecheni

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244 p.

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## **Dual-energy CT (DECT) with xenon as accurate method of preoperative assessment of pulmonary tissue in lung diseases**

**S62**

*Karpov, O.Eh.; Bronov, O.Yu.; Kitaev, V.M.; Vetshev, P.S.; Filippov, Yu.A. (Natsional'nyj Mediko-Khirurgicheskij Tsentr im. N.I. Pirogova, Moscow (RU))*

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Dvukhehnergeticheskaya KT (DEhKT) s ksenonom: sovremennyj metod predoperatsionnoj otsenki sostoyaniya legochnoj tkani u pul'monologicheskikh bol'nykh

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**Clinical CT anatomy of the paranasal sinuses in preparation for functional endoscopic rhinosinusosurgery (what can the radiologist tell the otorhinolaryngologist?)**

**S62**

*Kastarnov, A.V. (Pyatigorskaya Gorodskaya Klinicheskaya Bol'nitsa No.2, Pyatigorsk (RU))*

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Klinicheskaya KT-anatomiya pridatochnykh pazukh nosa pri podgotovke k funktsional'noj ehndoskopicheskoj rinosinusokhirurgii (chto radiolog mozhet soobshchit' otorinolaringologu?)

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NOSE; RESPIRATORY SYSTEM DISEASES; COMPUTERIZED TOMOGRAPHY; DIAGNOSIS; SURGERY; ANATOMY

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**Diagnostic value of <sup>123</sup>I-MIBG-scintigraphy in identification of liver metastasis in children with neuroblastoma**

**S62**

*Kireeva, E.D.; Kajlash; Krupina, I.S.; Likar', Yu.N. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Detskoj Gematologii, Onkologii i Immunologii im. Dmitriya Rogacheva, Moscow (RU))*

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Znachimost' stsintigrafii s <sup>123</sup>I-MJBG v diagnostike metastaticheskogo porazheniya pecheni u detej s nejroblastomoj

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RADIOISOTOPE SCANNING; DIAGNOSIS; ORGANIC IODINE COMPOUNDS;  
PATIENTS; ACCURACY

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**Lung metastatic lesion in children with rhabdomyosarcoma****S62**

*Kirillova, O.A.; Zakharova, E.V.; Mikhajlova, E.V. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Onkologii im. N.N. Blokhina, Moscow (RU))*

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Metastaticheskoe porazhenie legkikh u detej pri rabdomiosarkome

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CHILDREN; SARCOMAS; DIAGNOSIS; COMPUTERIZED TOMOGRAPHY; LUNGS;  
METASTASES; BIOMEDICAL RADIOGRAPHY

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**Features of the abdominal tuberculosis in AIDS (terminal HIV) patients****S62**

*Klimova, N.V.; Gaus, A.A. (Surgutskij Gosudarstvennyj Univ. Khanty-Mansijskogo*

*Avtonomnogo Okruga-Yugry, Surgut (RU)*

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Osobennosti techeniya abdominal'nogo tuberkuleza u bol'nykh s terminal'noj stadiej VICH-infeksii

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**The application of the CT colonography for patients with colon cancer in the planning of surgical interventions**

**S62**

*Kobtsova, T.V.; Meldo, A.A.; Avanesyan, A.A.; Zhuravlev, A.S. (Sankt-Peterburgskij Klinicheskij Nauchno-Prakticheskij Tsentr Spetsializirovannykh Vidov Meditsinskoj Pomoshchi (Onkologicheskij), Sankt-Peterburg (RU))*

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KT-kolonografiya v planirovanii operativnykh vmeshatel'stv pri rake tolstoj kishki

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LARGE INTESTINE; PATIENTS; SURGERY; COMPUTERIZED TOMOGRAPHY; NEOPLASMS; COMPARATIVE EVALUATIONS; BIOLOGICAL LOCALIZATION

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**Features of CT diagnostics of interstitial diseases in the clinic of occupational diseases**



**S62**

*Kovaleva, A.S.; Lashina, E.L. (Nauchno-Issledovatel'skij Inst. Meditsiny Truda im. Akademika N.F. Izmerova, Moscow (RU)); Egorova, E.M.; Semenova, M.S. (Orenburgskaya Oblastnaya Klinicheskaya Bol'nitsa, Orenburg (RU))*

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**X-Ray monitoring examinations of population as indicators of implementation Russian National Priority Project «Health»****S62**

*Kolomiets, V.M.; Kruglyakov, S.V. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU))*

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Proverochnye osmotry naseleniya lucheвыми metodami kak indikatorы ehffektivnosti realizatsii Natsional'nogo proekta «Zdorov'e»

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**Proposals to increase effectiveness X-ray screening examinations of population****S62**

*Kolomiets, V.M.; Malykhin, A.N. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU))*

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Varianty povysheniya ehffektivnosti proverochnykh osmotrov naseleniya luchevymi metodami  
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ASSESSMENT; EPIDEMIOLOGY

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**Magnetic-resonance tomography in evaluation of the influence of the  
temporomandibular joint arthrosis in pain syndrome in temporomandibular  
joint dysfunction**

**S62**

*Komolov, I.S. (Gorodskaya Klinicheskaya Bol'nitsa No. 64, Moscow (RU))*

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Magnitno-rezonansnaya tomografiya v otsenke vliyaniya artroza visochno-nizhnechelyustnogo  
sustava v formirovanii bolevogo sindroma pri ego disfunktsii

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BONE JOINTS; SKULL; SKELETAL DISEASES; PATIENTS; PAIN; COMPARATIVE  
EVALUATIONS; DIAGNOSIS; TOMOGRAPHY; MAGNETIC RESONANCE

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**Screws biodegradation and bone assimilation in remote period after anterior  
cruciate ligament reconstruction surgery**

**S62**

*Konov, K.S.; Zvezdkina, E.A.; Lesnyak, V.N.; Akhpashev, A.A.; Dzhambinova, E.A.; Veprintseva, E.A. (Federal'nyj Nauchno-Klinicheskij Tsentr Spetsializirovannykh Vidov Meditsinskoj Pomoshchi i Meditsinskikh Tekhnologij, Moscow (RU))*

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**The role of computed tomography in assessing pleura invasion in patients with lung cancer**

**S62**

*Korotkov, P.B.; Khrushcheva, D.S. (Gorodskaya Klinicheskaya Bol'nitsa No. 40, Ekaterinburg (RU)); Kosterina, N.E. (Sverdlovskij Oblastnoj Protivotuberkuleznyj Dispanser, Ekaterinburg (RU))*

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Rol' komp'yuternoj tomografii v otsenke invazii plevry u patsientov s rakom legkogo

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<sup>188</sup>**Re-zoledronic acid in palliative care patients with bone metastases**

**S62**

*Kochetova, T.Yu.; Spichenkova, O.N.; Petrosyan, K.M.; Davydov, G.A.; Krylov, V.V. (Meditsinskij Radiologicheskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU)); Smolyarchuk, M.Ya. (Dept. Zdravookhraneniya g. Moskvy, Moscow (RU)); Voloznev, L.V. (ZAO «Farm-Sintez», Moscow (RU))*

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<sup>188</sup>Re-zoledronovaya kislota v palliativnoj terapii bol'nykh s metastazami v kosti

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**Possibilities of computed tomography for diagnosis «shaken baby syndrome»****S62**

*Kropotova, O.E. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU)); Detskaya Bol'nitsa No. 19 im. K.A. Raukhfusa, Sankt-Peterburg (RU)); Bojkov, I.V.; Zheleznyak, I.S. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU)); Pinevskaya, M.V. (Detskaya Bol'nitsa No. 19 im. K.A. Raukhfusa, Sankt-Peterburg (RU))*

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## **The possibilities of computed tomography in the diagnosis of emergency conditions with colon pathology**

**S62**

*Kudryavtseva, A.V.; Savchenko, M.I.; Shorina, Ya.E.; Bojkov, I.V.; Ipatov, V.V.; Rodin, I.V. (Voенно-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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## **The use of radiotherapy in the complex treatment of acute pancreatitis**

**S62**

*Kuzina, T.V.; Pogrebnyakov, V.Yu. (Chitinskaya Gosudarstvennaya Meditsinskaya Akademiya, Chita (RU))*

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## **Sensitivity of circulating suppressor regulatory T-cells to chemoradiotherapy for Hodgkin's lymphoma**

**S62**

*Kuz'mina, E.G.; Mushkarina, T.Yu.; Bogatyreva, T.I.; Konstantinova, T.V. (Meditsinskij Radiologicheskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU))*

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## **Extracorporeal shock wave therapy for osteoarthritis**

**S62**

*Kulibaba, K.V. (Nauchno-Issledovatel'skij Inst. Travmatologii i Ortopedii im. R.R. Vredena, Sankt-Peterburg (RU)); Kulibaba, T.G. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU))*

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## **Multiparameter MRI in the assessment of the tumor response of the liver secondary changes to the stereotactic radiation therapy**

**S62**

*Kuplevatskaya, D.I.; Kuplevatskij, V.I.; Cherkashin, M.A.; Berezina, N.A. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU)); Babij, A.P. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Vorob'ev, N.A. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU)); Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU); Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU))*

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## **The value of chest computer tomography retrospective analysis**

**S62**

*Lajpan, A.Sh.; Gombolevskij, V.A.; Gelezhe, P.B. (Nauchno-Prakticheskij Tsentr Meditsinskoj Radiologii, Moscow (RU)) (and others)*

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ASSESSMENT

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**Magnetic resonance imaging for response assessment of transarterial  
chemoembolization in metastatic liver neuroendocrine tumor patients**

**S62**

*Lapteva, M.G.; Shorikov, M.A.; Sergeeva, O.N.; Frantsev, D.Yu.; Virshke, Eh.R.; Dolgushin, B.I.  
(Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Onkologii im. N.N. Blokhina, Moscow (RU))*

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khimioehmbolizatsii u patsientov s metastazami nejroehndokrinykh opukholej v pecheni

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COMPARATIVE EVALUATIONS; CHEMOTHERAPY; EFFICIENCY

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**The possibilities of using virtual colonoscopy in patients with intestinal stoma**

**S62**

*Lejsle, A.K.; Ushakov, A.V. (Kemerovskaya Oblastnaya Klinicheskaya Bol'nitsa, Kemerovo  
(RU)); Zavadovskaya, V.D. (Sibirskij Gosudarstvennyj Meditsinskij Univ., Tomsk (RU))*

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USES

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### **Estimation of radiation safety of radiopharmaceutical application**

**S62**

*Lunev, A.S.; Klement'eva, O.E.; Kodina, G.E. (Federal'nyj Meditsinskij Biofizicheskij Tsentr im. A.I. Burnazyana, Moscow (RU))*

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### **Multi-section computerized tomography in diagnostics of emergency abdominal pathology of a non-traumatic nature**

**S62**

*Magdebura, Yu.A.; Arablinskij, A.V.; Parfenov, I.P. (Gorodskaya Klinicheskaya Bol'nitsa im. S.P. Botkina, Moscow (RU))*

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### **Complex radiation diagnosis of cerebral venous thrombosis**

**S62**

*Majsigova, A.A.; Bubnova, E.V.; Lukina, O.V. (Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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### **The subjective data of ultrasound examination by X-ray 0 stage of gonarthrosis**

**S62**

*Makarova, M.V. (Severnoj Gosudarstvennyj Meditsinskij Univ., Arkhangel'sk (RU))*

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## **Ability to diagnose disorders of liver hemodynamics in conditions of biliary hypertension with perfusion computed tomography**

**S62**

*Malakhanov, V.A. (Irkutskaya Gorodskaya Klinicheskaya Bol'nitsa No. 1, Irkutsk (RU); Irkutskij Nauchnyj Tsentr Khirurgii i Travmatologii, Irkutsk (RU)); Seliverstov, P.V. (Irkutskij Nauchnyj Tsentr Khirurgii i Travmatologii, Irkutsk (RU))*

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## **Multimodal ray evaluation of the syndrome of excessive trabecularity and noncompact myocardium of the left ventricle**

**S62**

*Malov, A.A.; Yusupova, A.F. (Kazanskij Gosudarstvennyj Meditsinskij Univ., Kazan' (RU)); Bashirov, R.A. (Respublikanskaya Klinicheskaya Bol'nitsa, Kazan' (RU))*

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### **Hyperparathyroidism (clinical case)**

**S62**

*Malygina, O.Ya. (Orenburgskij Gosudarstvennyj Meditsinskij Univ., Orenburg (RU))*

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SURGERY; THYROID; RADIOPHARMACEUTICALS

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### **Features of ultrasonic diagnostics of destructive pancreatitis in the application of minimally invasive technologies**

**S62**

*Mamoshin, A.V.; Al'yanov, A.L. (Orlovskij Gosudarstvennyj Univ. im. I.S. Turgeneva, Orel (RU); Smolenskij Gosudarstvennyj Meditsinskij Univ., Smolensk (RU); Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU)); Borsukov, A.V. (Smolenskij Gosudarstvennyj Meditsinskij Univ., Smolensk (RU)); Muradyan, V.F. (Orlovskij Gosudarstvennyj Univ. im. I.S. Turgeneva, Orel (RU); Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU)); Abolmasov, A.V. (Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU))*

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Osobennosti ul'trazvukovoj diagnostiki destruktivnogo pankreatita v ramkakh primeneniya miniinvazivnykh tekhnologij

p. 105-106

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PATIENTS; DIAGNOSIS; PANCREAS; DIGESTIVE SYSTEM DISEASES;  
ULTRASONOGRAPHY; BIOMEDICAL RADIOGRAPHY; CONTRAST MEDIA;  
THERAPY; COMPARATIVE EVALUATIONS; SENSITIVITY

---

**Radiation diagnostics in the framework of intervention technologies for malignant lesions of the organs of hepatopancreatoduodenal region, complicated by mechanical jaundice**

**S62**

*Mamoshin, A.V.; Al'yanov, A.L. (Orlovskij Gosudarstvennyj Univ. imeni I.S. Turgeneva, Orel (RU); Smolenskij Gosudarstvennyj Meditsinskij Univ., Smolensk (RU); Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU)); Borsukov, A.V. (Smolenskij Gosudarstvennyj Meditsinskij Univ., Smolensk (RU)); Muradyan, V.F. (Orlovskij Gosudarstvennyj Univ. imeni I.S. Turgeneva, Orel (RU); Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU)); Abolmasov, A.V. (Orlovskaya Oblastnaya Klinicheskaya Bol'nitsa, Orel (RU))*

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Luchevaya diagnostika v ramkakh interventsionnykh tekhnologij pri zlokachestvennom porazhenii organov gepatopankreatoduodenal'noj oblasti, oslozhnennom mekhanicheskoj zheltukhoj

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ULTRASONOGRAPHY; COMPUTERIZED TOMOGRAPHY; DIAGNOSTIC  
TECHNIQUES; BILIRUBIN; SURGERY; THERAPY; COMPARATIVE EVALUATIONS

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**Magnetic resonance imaging for visualization of pathological changes semicircular canals in patients with vertigo**

**S62**

*Manakova, Ya.L.; Dergilev, A.P.; Zadil'skaya, K.Yu. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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Magnitno-rezonansnaya tomografiya v vizualizatsii patologicheskikh izmenenij polukruznykh

kanalov u patsientov s golovokruzheniem

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## **Nuclear medicine in oncology: principle for approved targeted NM tracers in diagnosis and therapy**

**S62**

*Marin, A.I.; Kirichenko, P.Yu.; Sukhov, V.Yu. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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NUCLEAR MEDICINE; RADIOPHARMACEUTICALS; DIAGNOSIS; THERAPY; NEOPLASMS; RADIOISOTOPES

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## **CT with virtual colonoscopy in diagnostic algorithm of examination of children with defecation dysfunction**

**S62**

*Marochko, N.V.; Ermolaeva, V.A.; Pinigin, A.G. (Detskaya Kraevaya Klinicheskaya Bol'nitsa im. A.K. Piotrovicha, Khabarovsk (RU))*

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Rol' spiral'noj komp'yuternoj tomografii kishechnika s virtual'noj kolonoskopiej v algoritme  
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COMPUTERIZED TOMOGRAPHY; COMPARATIVE EVALUATIONS; LARGE  
INTESTINE; DIAGNOSIS

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## **Magnetic resonance spectroscopy of cervical spine**

**S62**

*Marchuk, V.P. (Respublikanskij Nauchno-Prakticheskij Tsentr Travmatologii i Ortopedii, Minsk (BY); Belorusskaya Meditsinskaya Akademiya Poslediplomnogo Obrazovaniya, Minsk (BY));*

*Beletskij, A.V. (Respublikanskij Nauchno-Prakticheskij Tsentr Travmatologii i Ortopedii, Minsk (BY));*

*Mikhajlov, A.N. (Belorusskaya Meditsinskaya Akademiya Poslediplomnogo*

*Obrazovaniya, Minsk (BY)); Makarevich, S.V.; Eremin, N.I. (Vitebskij Oblastnoj*

*Diagnosticheskij Tsentr, Vitebsk (BY))*

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Magnitno-rezonansnaya spektroskopiya v otsenke spinnogo mozga pri shejnom spondileze

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SKELETAL DISEASES; BIOLOGICAL MARKERS; COMPARATIVE EVALUATIONS;  
BIOCHEMISTRY; CORRELATIONS

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## **Analysis of adverse reactions of contrast mediums in Crimea Republic in 2011-2016**

**S62**

*Matveev, A.V. (Natsional'nyj Nauchnyj Tsentr Farmakonadzora, Moscow (RU); Meditsinskaya*

*Akademiya im. S.I. Georgievskogo Krymskogo Federal'nogo Univ. im. V.I. Vernadskogo, Simferopol' (RU); Krashennikov, A.E. (Natsional'nyj Nauchnyj Tsentr Farmakonadzora, Moscow (RU)); Egorova, E.A. (Meditsinskaya Akademiya im. S.I. Georgievskogo Krymskogo Federal'nogo Univ. im. V.I. Vernadskogo, Simferopol' (RU))*

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Analiz izveshchenij o nezhelatel'nykh lekarstvennykh reaktsiyakh rentgenokonstrastnykh sredstv v Respublike Krym v 2011-2016 godakh

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CONTRAST MEDIA; BIOMEDICAL RADIOGRAPHY; SIDE EFFECTS; PATIENTS; CORRELATIONS; COMPARATIVE EVALUATIONS; RECOMMENDATIONS

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**Radiological methods of research of abdominal tuberculosis**

**S62**

*Makhmadov, F.I. (Gosudarstvennoe Uchrezhdenie Meditsinskij Kompleks «Istiklol», Dushanbe (TJ); Tadjhikskij Gosuadrstvennyj Meditsinskij Univ. im. Abuali Ibni Sino, Dushanbe (TJ)); Asoev, M.S. (Tadjhikskij Gosuadrstvennyj Meditsinskij Univ. im. Abuali Ibni Sino, Dushanbe (TJ))*

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TUBERCULOSIS; PATIENTS; BIOMEDICAL RADIOGRAPHY; COMPARATIVE EVALUATIONS; COMPUTERIZED TOMOGRAPHY

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**Radionuclide diagnostics of locally advanced larynx and laryngopharynx cancer**

**S62**

*Medvedeva, A.A.; Chernov, V.I.; Zel'chan, R.V.; Belevich, Yu.V.; Chizhevskaya, S.Yu.; Chojnzonov, E.L.; Sinilkin, I.G. (Tomskij Natsional'nyj Issledovatel'skij Meditsinskij Tsentr, Tomsk (RU))*

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NODES; TECHNETIUM 99; EMISSION COMPUTED TOMOGRAPHY; PHOTON  
COMPUTED TOMOGRAPHY; DIAGNOSIS; SENSITIVITY; EFFICIENCY

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**Cerebral MRI changes in infants with congenital heart disease**

**S62**

*Melashenko, T.V.; Pozdnyakov, A.V.; Volkova, Yu.V.; Naumov, A.B.; Pozdnyakova, O.F. (Sankt-Peterburgskij Gosudarstvennyj Pediatricheskij Meditsinskij Univ., Sankt-Peterburg (RU))*

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MRT izmeneniya golovnogogo mozga u detej mladshego vozrasta s operirovannymi vrozhdennymi porokami serdtsa

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PATIENTS; CHILDREN; HEART; CARDIOVASCULAR DISEASES; BRAIN; MAGNETIC  
RESONANCE; TOMOGRAPHY; SURGERY; BLOOD COAGULATION; COMPARATIVE  
EVALUATIONS

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**Diagnostic significance of CT coronary angiography in patients with non-ST**

## **elevation acute coronary syndrome**

**S62**

*Mel'nikov, N.N.; Malysheva, T.Yu. (Oblastnaya Klinicheskaya Bol'nitsa No. 1, Tyumen' (RU))*

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Diagnosticheskaya znachimost' metoda KT-koronarografi u bol'nykh s OKS bez pod'ema segmenta ST

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PATIENTS; COMPUTERIZED TOMOGRAPHY; BIOMEDICAL RADIOGRAPHY; BLOOD VESSELS; CARDIOVASCULAR DISEASES; ARTERIES; COMPARATIVE EVALUATIONS

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## **Complex radiological diagnostics in patients with transitorial ischemic attack in regional vascular center**

**S62**

*Mironova, Yu.A.; Filippov, A.V.; Gontarenko, E.Yu.; Prokopenko, O.P. (Respublikanskaya Klinicheskaya Bol'nitsa im. N.A. Semashko, Simferopol' (RU))*

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Provedenie kompleksnoj luchevoj diagnostiki patsientam s tranzitornoj ishemicheskoj atakoj v usloviyakh regional'nogo sosudistogo tsentra

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PATIENTS; BIOMEDICAL RADIOGRAPHY; CARDIOVASCULAR DISEASES; COMPARATIVE EVALUATIONS; BRAIN; CEREBRAL ARTERIES

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## **Role of MRI in diagnosis of diffuse axonal damage**

**S62**

*Mironova, Yu.A.; Filippov, A.V.; Torgovaya, M.V.; Krapko, Yu.A. (Respublikanskaya Klinicheskaya Bol'nitsa im. N.A. Semashko, Simferopol' (RU))*

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PATIENTS; INJURIES; SKULL; MAGNETIC RESONANCE; COMPUTERIZED TOMOGRAPHY; COMPARATIVE EVALUATIONS

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## **A study into the causes of peculiarities of the contours of malignant breast tumors on X-ray mammograms**

**S62**

*Mikhajlov, M.K. (Kazanskaya Gosudarstvennaya Meditsinskaya Akademiya, Kazan' (RU)); Romanycheva, E.A. (Respublikanskij Onkologicheskij Dispanser, Joshkar-Ola (RU)); Povolzhskij Gosudarstvennyj Tekhnologicheskij Univ., Joshkar-Ola (RU)); Sevast'yanov, V.V. (Povolzhskij Gosudarstvennyj Tekhnologicheskij Univ., Joshkar-Ola (RU)); Ushakova, O.L. (Respublikanskij Onkologicheskij Dispanser, Joshkar-Ola (RU))*

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Issledovanie prichin osobennostej konturov zlokachestvennykh opukholej molochnykh zhelez na rentgenovskikh mammogrammakh

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## **Computed tomography in diagnostics of liver and spleen wounds**

**S62**

*Mikhajlovskaya, E.M.; Nekrasova, M.N.; Zheleznyak, I.S.; Ipatov, V.V.; Bojkov, I.V.; Zubrilova, E.D.; Sarantseva, N.S. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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Komp'yuternaya tomografiya v neotlozhnoj diagnostike ranenij pečeni i selezenki

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WOUNDS; LIVER; SPLEEN; COMPUTERIZED TOMOGRAPHY; DIAGNOSIS; PATIENTS; BIOMEDICAL RADIOGRAPHY; BLOOD VESSELS; BLOOD FLOW

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## **The possibility of MRI in diagnosis of external endometriosis**

**S62**

*Molgachev, A.A. (Lechebno-Diagnosticheskiy Tsentr Mezhdunarodnogo Inst. Biologicheskikh Sistem, Krasnoyarsk (RU)); Makarenko, T.A. (Krasnoyarskiy Gosudarstvennyj Meditsinskiy Univ. im. Professora V.F. Vojno-Yasenetskogo, Krasnoyarsk (RU))*

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Vozmozhnosti magnitno-rezonansnoj tomografii v diagnostike naruzhnogo endometrijoza

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COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; UTERUS; DIAGNOSIS; BIOLOGICAL LOCALIZATION; COMPARATIVE EVALUATIONS

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**The diagnostic value of dynamic single-photon emission computed tomography in coronary flow reserve assessment in patients with coronary artery disease**  
**S62**

*Mochula, A.V.; Andreev, S.L.; Krylov, A.L. (Nauchno-Issledovatel'skij Inst. Kardiologii Tomskogo Natsional'nogo Meditsinskogo Tsentra, Tomsk (RU)); Zavadovskij, K.V.; Lishmanov, Yu.B. (Nauchno-Issledovatel'skij Inst. Kardiologii Tomskogo Natsional'nogo Meditsinskogo Tsentra, Tomsk (RU); Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))*

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Informativnost' dinameskoj odnofotonnoj ehmissionnoj komp'yuternoj tomografii v otsenke rezerva miokardial'nogo krovotoka u patsientov s ateroskleroticheskim porazheniem koronarnykh arterij

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COMPUTERIZED TOMOGRAPHY; CORONARIES; ARTERIOSCLEROSIS; DIAGNOSIS; ISCHEMIA; ELECTRON EMISSION; PHOTON EMISSION; BLOOD VESSELS; SENSITIVITY; COMPARATIVE EVALUATIONS

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**Evaluation of arterial blood flow in the pancreas graft using dynamic wide-detector computed tomography**

**S62**

*Muslimov, R.Sh.; Sharifullin, F.A.; Anisimov, Yu.A. (Nauchno-Issledovatel'skij Inst. Skoroj Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU)); Ternovoj, S.K.; Serova, N.S. (Pervyj Moskovskij Gosudarstvennyj Meditsinskij Univ. im. I.M. Sechenova, Moscow (RU))*

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Otsenka pokazatelej arterial'nogo krovotoka v transplantate podzheludochnoj zhelezy s pomoshch'yu shirokodetektornoj dinameskoj komp'yuternoj tomografii

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244 p.

ARTERIES; PANCREAS; TRANSPLANTS; DIAGNOSIS; COMPUTERIZED  
TOMOGRAPHY; KIDNEYS; CONTRAST MEDIA; BLOOD FLOW

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## **CT-assessment effects of treatment mesenchymal tumors: comparison of RECIST, CHOI criteria and therapeutic pathomorphism**

**S62**

*Navoyan, O.B.; Silant'eva, N.K.; Mozerov, S.A.; Novikov, N.Yu.; Komin, Yu.A. (Meditsinskij Radiologicheskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU))*

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KT-otsenka ehffektov lecheniya mezenkhimal'nykh opukholej: sravnenie kriteriev RECIST, CHOI i lechebnogo patomorfoza opukholej

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NEOPLASMS; THERAPY; SURGERY; COMPUTERIZED TOMOGRAPHY; DENSITY;  
COMPARATIVE EVALUATIONS; ACCURACY; DIAGNOSIS

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## **ASL perfusion with acetazolamide challenge in evaluation cerebrovascular reserve**

**S62**

*Nadtochij, N.B.; Fokin, A.V.; Trushin, I.V.; Vardugin, Yu.S.; Gorbatenko, D.S. (Chelyabinskaya Oblastnaya Klinicheskaya Bol'nitsa, Chelyabinsk (RU))*

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Primenenie ASL-perfuzii s atsetazolamidom dlya otsenki tserebrovaskulyarnogo rezerva

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COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; BRAIN; SURGERY;  
BLOOD FLOW; PATIENTS; ARTERIES; COMPARATIVE EVALUATIONS; DIAGNOSIS

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## **The role of radiation diagnosis in the examination of children with broncho-pulmonary dysplasia and its importance for determining the severity of lung injury**

**S62**

*Nazarova, N.F.; Bozhko, O.V.; Kuftina, L.A.; Syroezhin, N.A.; Kazakov, D.O.; Prytkina, M.V. (Nauchno-Issledovatel'skij Klinicheskij Inst. Pediatrii im. Akademika Yu.E. Vel'tishcheva, Moscow (RU); Rossijskij Natsional'nyj Issledovatel'skij Meditsinskij Univ. im. N.I. Pirogova, Moscow (RU))*

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Rol' luchevoj diagnostiki v obsledovanii detej s bronkho-legochnoj displaziej i ee znachenie dlya opredeleniya stepeni tyazhesti porazheniya legkikh

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PATIENTS; BRONCHI; LUNGS; RESPIRATORY SYSTEM DISEASES; BIOMEDICAL RADIOGRAPHY; INFANTS; DIAGNOSIS; COMPARATIVE EVALUATIONS

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## **Comparison of perfusion and pancreatic phase CT accuracy**

**S62**

*Nesterov, D.V. (Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU)); Rozengauz, E.V. (Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU); Rossijskij Nauchnyj Tsentr Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Sravnitel'naya otsenka diagnosticheskoj ehffektivnosti KT: perfuzionnoj i provedennoj v pankreaticheskuju fazu

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COMPARATIVE EVALUATIONS; EFFICIENCY; BLOOD FLOW; HISTOLOGY

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### **Volume differences during follow-up in nodules after semiautomatic segmentation. Does experience matter?**

**S62**

*Nesterova, V.V.; Nesterov, D.V.; Rozengauz, E.V. (Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU); Rossijskij Nauchnyj Tsentr Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU)); Al'derov, Z.A. (Rossijskij Nauchnyj Tsentr Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Otsenka dinamiki ob"ema ochagov v legkikh pri ruchnoj korrektsii ikh konturov. Opyt imeet znachenie?

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LUNGS; PATIENTS; COMPUTERIZED TOMOGRAPHY; COMPUTER CODES; MEDICAL PERSONNEL; COMPARATIVE EVALUATIONS; BIOMEDICAL RADIOGRAPHY

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### **Diagnosis of minimal stress urinary incontinence in females with genital prolapse**

*Nechiporenko, A.S. (Grodnenskaya Oblastnaya Klinicheskaya Bol'nitsa, Grodno (BY))*

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Diagnostika minimal'nogo stressovogo nederzhaniya mochi u zhenshchin s genital'nyim prolapsom

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**Diagnosics of implant-associated complications of surgical treatment of the genital prolapse and urinary incontinence by methods of MRI and CT**  
**S62**

*Nechiporenko, A.S. (Grodnenskaya Oblastnaya Klinicheskaya Bol'nitsa, Grodno (BY))*

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IMPLANTS; SURGERY; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE;  
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**Possibilities of the dynamic MRI in diagnosis of the pelvic organs prolapse in women**

**S62**

*Nechiporenko, A.S.; Nechiporenko, A.N. (Grodnenskaya Oblastnaya Klinicheskaya Bol'nitsa, Grodno (BY))*

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### **CT pulmonary angiography for the estimation of right ventricular dysfunction in patients with acute pulmonary embolism**

**S62**

*Nikitin, N.A.; Shayakhmetova, S.V.; Amelin, M.E.; Minin, S.M.; Karpenko, A.A. (Sibirskij Federal'nyj Biomeditsinskij Issledovatel'skij Tsentri im. Akademika E.N. Meshalkina, Novosibirsk (RU))*

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Diagnostika disfunktsii pravogo zheludochka u patsientov s ostroj tromboemboliej legochnoj arterii po dannym EhKG-sinkhronizirovannoj KT-angiografii

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### **MDCT of brachiocephalic arteries in stenting strategy of high grade asymptomatic internal carotid arteries stenoses**

**S62**

*Nikolaeva, E.V.; Larionov, A.A.; Gorbunov, M.G. (Federal'nyj Tsentri Serdechno-Sosudistoj Khirurgii, Astrakhan' (RU))*

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Mul'tispiral'naya komp'yuternaya tomografiya brachiotsefal'nykh arterij v vybore strategii

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COMPUTERIZED TOMOGRAPHY; CAROTID ARTERIES; CARDIOVASCULAR  
DISEASES; CONTRAST MEDIA; PATIENTS; DIAGNOSIS

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## **The complex imaging diagnosis of undifferentiated embryonal sarcoma of the liver in children**

**S62**

*Nikulina, A.L.; Petrash, E.A.; Mikhajlova, E.V.; Panferova, T.R. (Natsional'nyj Meditsinskij  
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Kompleksnaya lucheвая diagnostika nedifferentsirovannoj ehmbriional'noj sarkomy pecheni u  
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PATIENTS; CHILDREN; LIVER; SARCOMAS; BIOMEDICAL RADIOGRAPHY;  
DIAGNOSIS; COMPARATIVE EVALUATIONS

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## **X-ray and diagnostic criteria anomalies of Kimmerle**

**S62**

*Nosivets, S.M. (OOO Meditsinskij Tsentr «Klinika Semejnoj Meditsiny», Dnepropetrovsk (UA));*

*Nosivets, D.S. (Dnepropetrovskaya Meditsinskaya Akademiya, Dnepropetrovsk (UA))*

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PATIENTS; NECK; LIGAMENTS; ARTERIES; NERVES; CALCINOSIS; BIOMEDICAL RADIOGRAPHY; DIAGNOSIS

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### **Value and limitations of $^{68}\text{Ga}$ -DOTATATE PET/CT in pancreatic neuroendocrine tumors visualization**

**S62**

*Nosov, N.A.; Tlostanova, M.S.; Stanzhevskij, A.A. (Rossijskij Nauchnyj Tsentr Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Dostoinstva i nedostatki PEhT/KT s  $^{68}\text{Ga}$ -DOTATATE v diagnostike nejroehndokrinnykh opukholej podzheludochnoj zhelezy

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### **Early and differential radiological diagnosis group of inflammatory polyarthropathy**

**S62**

*Obramenko, I.E. (Volgogradskij Oblastnoj Klinicheskij Kardiologicheskij Tsentr, Volgograd (RU))*

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Rannyya i differentsial'naya luchevidnaya diagnostika gruppy vospalitel'nykh poliartropatij



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### **Multislice computed tomography in children with congenital heart defects**

**S62**

*Obramenko, I.E. (Volgogradskij Oblastnoj Klinicheskij Kardiologicheskij Tsentr, Volgograd (RU))*

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EVALUATIONS; CONTRAST MEDIA

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### **A rare case of neuroradiologic diagnostics of bilateral optic nerve glioma in the child with type I neurofibromatosis**

**S62**

*Ol'shanskaya, A.S.; Shnajder, N.A.; Dmitrenko, D.V.; Kozina, E.V. (Krasnoyarskij Gosudarstvennyj Meditsinskij Univ. im. Professora V.F. Vojno-Yasenetskogo, Krasnoyarsk (RU))*

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Redkij sluchaj nejroradiologicheskij diagnostiki dvukhstoronnej gliomy zritel'nogo nerva u

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### **Radiological control in general noninvasive curative hypothermia of newborns S62**

*Orlova, V.V.; Vorotyntseva, N.S.; Aseeva, E.K. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU))*

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Luchevoj algoritm i skrining dlya novorozhdennykh detej na fone obshchej neinvazivnoj terapevticheskoj gipotermii (ONTG)

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### **MRI in the differential diagnosis of recurrent rectal cancer and scar process S62**

*Otochkin, V.V.; Rozengauz, E.V. (Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Sankt-Peterburg (RU))*

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Magnitno-rezonansnaya tomografiya v differentsial'noj diagnostike retsidiva raka pryamoj kishki i rubtsovogo protsesssa

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DIAGNOSIS; TOMOGRAPHY; MAGNETIC RESONANCE; PATIENTS; NEOPLASMS;  
RECTUM; SURGERY; CONTRAST MEDIA; MONITORING; COMPARATIVE  
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### **MRI assessment in contraindications for uterine fibroid embolization in women S62**

*Pavlovskaya, E.A.; Trufanov, G.E. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr im. V.A. Almazova, Sankt-Peterburg (RU))*

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Magnitno-rezonansnaya tomografiya v opredelenii protivopokazanij k ehmbolizatsii matochnykh arterij u zhenshchin s lejomiomami matki

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### **Clinical experience of performing PET/CT with <sup>68</sup>Ga-PSMA and <sup>11</sup>C-choline in patients with prostate cancer with biochemical relapse after prostatectomy S62**

*Pakhomov, A.Yu.; Tlostanova, M.S.; Stanzhevskij, A.A. (Rossijskij Nauchnyj Tsentr Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Klinicheskij opyt vypolneniya PEhT/KT s <sup>68</sup>Ga-PSMA i <sup>11</sup>C-kholinom u bol'nykh

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## **Differential diagnosis of tumoral formations of the head and neck by the example of rare clinical cases**

**S62**

*Petrovichev, V.S.; Vasil'ev, P.V. (Onkologičeskij Kliničeskij Dispanser No. 1, Moscow (RU)); Sinitsyn, V.E.; Meršina, E.A. (Lečebno-Reabilitatsionnyj Tsentr Minzdrava Rossii, Moscow (RU))*

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Differentsial'naya diagnostika opukholevidnykh obrazovanij golovy i shei na primere redkikh kliničeskikh slučaev

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PATIENTS; HEAD; NECK; NEOPLASMS; DIAGNOSIS; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; COMPARATIVE EVALUATIONS; EFFICIENCY

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## **Experience in the use of perfusion CT in the differential diagnosis of solitary pulmonary nodule**

**S62**

*Petrosyan, A.P.; Silant'eva, N.K.; Agababyan, T.A.; Usacheva, A.Yu. (Meditsinskij Radiologičeskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU))*

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Opyt primeneniya perfuzionnoj KT pri differentsial'noj diagnostike odinochnykh ochagov legkikh

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### **Application of the method of dynamic CT using low doses of the scanning protocol**

**S62**

*Petrosyan, A.P.; Silant'eva, N.K.; Goverdovskaya, A.M.; Usacheva, A.Yu. (Meditinskij Radiologicheskij Nauchnyj Tsentri im. A.F. Tsyba – Filial Natsional'nogo Meditsinskogo Issledovatel'skogo Radiologicheskogo Tsentra, Obninsk (RU))*

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### **Accuracy of estimation of bone mineral density with different X-ray methods. Phantom study**

**S62**

*Petryajkin, F.A.; Sinitsyn, V.E. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova,*

Moscow (RU)); *Sergunova, K.A.; Petryajkin, A.V.; Akhmad, E.S.; Semenov, D.S.; Morozov, S.P. (Nauchno-Prakticheskij Tsentr Meditsinskoj Radiologii, Moscow (RU))*

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Otsenka tochnosti opredeleniya mineral'noj plotnosti kostej razlichnymi rentgenovskimi metodami. Fantomnoe issledovanie

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**The possibilities of magnetic resonance imaging in the assessment of the effect of competitive chemo-radiation treatment of head and neck tumors**

**S62**

*Plakhotina, N.A.; Smirnova, A.V.; Kuplevatskaya, D.V.; Mikhajlov, A.V.; Anishkin, M.Yu. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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**Anomalies of the teeth development according to the data of the cone-beam**

## **computerized tomography**

**S62**

*Plyaskova, Yu.S. (OOO «KT Novosibirsk», Novosibirsk (RU); Rentgendiagnosticheskij Tsentr «Pikasso», Novosibirsk (RU))*

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## **Magnetic resonance imaging for biliary pancreatitis**

**S62**

*Popova, I.E.; Sharifullin, F.A.; Barmina, T.G.; Rogal', M.L.; Magomedbekov, M.M. (Nauchno-Issledovatel'skij Inst. Skoroj Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))*

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## **Possibilities of computed tomography in the diagnosis of the causes of pulmonary hemorrhage**



**S62**

*Popova, I.E.; Sharifullin, F.A.; Muslimov, R.Sh.; Tarabrin, E.A.; Danielyan, Sh.N. (Nauchno-Issledovatel'skij Inst. Skoroy Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))*

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**<sup>11</sup>C-Choline PET/CT in the detection of oligometastatic prostate cancer in patients with biochemical recurrence**

**S62**

*Pursanova, D.M.; Aslanidi, I.P.; Mukhortova, O.V.; Ekaeva, I.V. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Serdechno-Sosudistoj Khirurgii im. A.N. Bakuleva, Moscow (RU)); Shirokorad, V.I. (Moskovskaya Gorodskaya Onkologicheskaya Bol'nitsa No. 62, Moscow (RU)); Roshchin, D.A. (Nauchno-Issledovatel'skij Inst. Urologii i Interventsionnoj Radiologii im. N.A. Lopatkina, Moscow (RU))*

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PEhT/KT c <sup>11</sup>C-kholinom v diagnostike oligometastaticheskogo protsessa u bol'nykh s biokhimicheskim retsidivom raka predstatel'noj zhelezy

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## **The value of using diffusion-weighted imaging in the visualization of focal liver formations**

**S62**

*Ratnikov, V.A. (Klinicheskaya Bol'nitsa No. 122 im. L.G. Sokolova, Sankt-Peterburg (RU); Nauchno-Klinicheskij i Obrazovatel'nyj Tsentr «Luchevaya Diagnostika i Yadernaya Meditsina» Sankt-Peterburgskogo Gosudarstvennogo Univ., Sankt-Peterburg (RU)); Skul'skij, S.K. (Klinicheskaya Bol'nitsa No. 122 im. L.G. Sokolova, Sankt-Peterburg (RU))*

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Tsennost' primeneniya magnitno-rezonansnoj diffuzii pri vizualizatsii ochagovykh obrazovanij pecheni

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## **Possibilities of PET/CT with 18F-FDG in the diagnosis of implantation metastases after surgical treatment of abdominal tumors**

**S62**

*Reshetnik, P.V. (OOO «PEhT-Tekhnolodzhi», Kursk (RU)); Piskunov, I.S. (Kurskij Gosudarstvennyj Meditsinskij Univ., Kursk (RU))*

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EVALUATIONS

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### **Experience of using endoscopic ultrasound in renal vein and inferior vena cava thrombus in case of renal cell carcinoma**

**S62**

*Reshetova, T.A.; Chernova, O.N.; Vazhenin, A.V.; Karnaukh, P.A.; Kulaev, K.I. (Chelyabinskij Oblastnoj Klinicheskij Tsentri Onkologii i Yadernoj Meditsiny, Chelyabinsk (RU))*

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### **Dynamics of fractional anisotropy in trigeminal nerve after microvascular decompression**

**S62**

*Rzaev, D.A. (Federal'nyj Tsentri Nejrokhirurgii, Novosibirsk (RU)); Amelin, M.E.; Mojsak, G.I. (Federal'nyj Tsentri Nejrokhirurgii, Novosibirsk (RU)); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)); Amelina, E.V. (Federal'nyj Tsentri Nejrokhirurgii, Novosibirsk (RU)); Inst. Vychislitel'nykh Tekhnologij, Novosibirsk (RU)); Degtyareva, L.O. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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Izmeneniya fraktsionnoj anizotropii posle mikrovaskulyarnoj dekompressii trojnichnogo nerva

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COMPARATIVE EVALUATIONS; ANISOTROPY

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### **The role of multispiral computed tomography in the diagnosis of vascular pathology in the syndrome of «acute abdomen»**

**S62**

*Rostovtsev, M.V.; Litvinenko, I.V.; Il'in, B.S. (Gorodskaya Klinicheskaya Bol'nitsa im. M.E. Zhadkevicha, Moscow (RU)); Rostovtseva, T.M. (Meditsinskij Tsentr «REHMSI Diagnostika», Moscow (RU))*

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### **Dosimetry of the lens of the eye and clinical examination of the organ of vision of personnel performing X-ray surgery**

**S63**

*Ryzhkin, S.A. (Kazanskaya Gosudarstvennaya Meditsinskaya Akademiya, Kazan' (RU); Kazanskij Gosudarstvennyj Meditsinskij Univ., Kazan' (RU)); Galeeva, G.Z. (Kazanskij Gosudarstvennyj Meditsinskij Univ., Kazan' (RU)); Slesareva, A.N. (OOO «Renir», Kazan' (RU)); Mikhajlov, M.K. (Kazanskaya Gosudarstvennaya Meditsinskaya Akademiya, Kazan' (RU))*

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Dozimetriya khrustalika glaza i klinicheskoe izuchenie organa zreniya personala, vpolnyayushchego rentgenokhirurgicheskie vmeshatel'stva

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### **Reduction of doses of radiation on patients using different methods of one-stage selective catheterization of arteries in X-ray and endovascular interventions**

**S63**

*Ryzhkin, S.A.; Mikhajlov, M.K. (Kazanskaya Gosudarstvennaya Meditsinskaya Akademiya, Kazan' (RU)); Sharafutdinov, B.M. (Mediko-Sanitarnaya Chast' Kazanskogo (Privolzhskogo) Federal'nogo Univ., Kazan' (RU)); Ismagilov, R.K. (Upravlenie Rospotrebnadzora po Respublike Tatarstan, Kazan' (RU))*

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Snizhenie doz oblucheniya patsientov pri ispol'zovanii razlichnykh metodik odnomomentnoj selektivnoj kateterizatsii arterij pri rentgenendovaskulyarnykh vmeshatel'stvakh

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### **The technique of computed tomography in patients with suspected obscure gastrointestinal bleeding**

**S62**

*Savchenko, M.I.; Bojkov, I.V.; Kudryavtseva, A.V. (Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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PATIENTS; COMPUTERIZED TOMOGRAPHY; INTESTINES; HEMORRHAGE;  
CONTRAST MEDIA; ABDOMEN

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## **Algorithm of post-processed computed tomography cardiac images in congenital heart defects**

**S62**

*Sadykova, G.K.; Trufanov, G.E.; Ryazanov, V.V.; Zheleznyak, I.S.; Ivanov, D.O.; Ipatov, V.V. (Voенno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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## **Possibilities of contrast colonography in diagnostics anomalies development colon in children with chronic colostasis**

**S62**

*Saidov, F.Kh. (Tashkentskij Inst. Usovershenstvovaniya Vrachej, Tashkent (UZ); Respublikanskij Nauchnyj Tsentр Ehкstrennoj Meditsinskoj Pomoshchi, Tashkent (UZ))*

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Vozmozhnosti kontrastnoj kolonografii v diagnostike porokov razvitiya tolstoj kishki u detej s khronicheskim kolostazom

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## **Radiological and nuclear imaging value in detection of skin melanoma metastases**

**S62**

*Sapogov, D.A.; Parkaev, V.V. (Kaliningradskaya Oblastnaya Klinicheskaya Bol'nitsa, Kaliningrad (RU)); Ipatov, V.V. (Voенno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU)) (and others)*

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## **Comparison of the value of non-enhanced and contrast enhanced whole body**



## **MDCT in patients with polytrauma**

**S62**

*Sedel'nikov, S.S. (Gorodskaya Klinicheskaya Bol'nitsa Skoroy Meditsinskoj Pomoshchi No. 1, Omsk (RU))*

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## **Complex radiation diagnosis of postoperative complications in patients with injuries of the gastrointestinal tract**

**S62**

*Selina, I.E.; Sharifullin, F.A.; Trofimova, E.Yu.; Kudryashova, N.E.; Skvortsova, A.V.; Radygina, M.V. (Nauchno-Issledovatel'skij Inst. Skoroy Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))*

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**A new technique for evaluating the results of chemotherapy for the treatment of metastatic bone damage**

**S62**

*Sergeev, N.I.; Kotlyarov, P.M.; Solodkij, V.A. (Rossijskij Nauchnyj Tsentr Rentgenoradiologii, Moscow (RU))*

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**The possibilities of computed tomography angiography in the evaluation of aortic valve in patients with aortic stenosis**

**S62**

*Skripnik, A.Yu.; Mironchuk, R.R.; Fokin, V.A.; Trufanov, G.E.; Irtyuga, O.B.; Malev, Eh.G.; Murtazaliev, P.M.; Sibagatullina, Yu.S.; Moiseeva, O.M. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr im. V.A. Almazova, Sankt-Peterburg (RU))*

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### **The possibilities of computed tomography angiography in assessment of vessel wall distensibility of ascending aorta**

**S62**

*Skripnik, A.Yu.; Mironchuk, R.R.; Fokin, V.A.; Trufanov, G.E.; Moiseeva, O.M.; Irtyuga, O.B.; Druzhkova, T.A.; Uspenskij, V.E.; Gordeev, M.L. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentri im. V.A. Almazova, Sankt-Peterburg (RU))*

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### **Is it necessary to further improve the criteria for assessing the dynamics of tumor liver metastases**

**S62**

*Skul'skij, S.K.; Rykov, I.V. (Klinicheskaya Bol'nitsa No. 122 im. L.G. Sokolova, Sankt-Peterburg (RU)); Ratnikov, V.A. (Klinicheskaya Bol'nitsa No. 122 im. L.G. Sokolova, Sankt-Peterburg (RU)); Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU))*

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### **Diagnostic peculiarities and differential diagnosis of gliomas changes after combined treatment**

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*Smirnova, A.V.; Lukina, O.V.; Plakhotina, N.A.; Kuz'min, A.V.; Tkachev, A.M. (Meditsinskij Inst. im. Berezina Sergeya, Volgograd (RU); Pervyj Sankt-Peterburgskij Gosudarstvennyj Meditsinskij Univ. im. Akademika I.P. Pavlova, Sankt-Peterburg (RU))*

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### **Opportunities of MR imaging supporting structures pelvis floor dysfunction**

**S62**

*Smolentseva, N.V.; Gerasimova, I.M. (Severo-Zapadnyj Gosudarstvennyj Meditsinskij Univ. im. I.I. Mechnikova, Meditsinskij Diagnosticheskij Tsentr «Ehnergo», Sankt-Peterburg (RU))*

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Rol' magnitno-rezonansnoj tomografii v diagnostike narushenij myshechno-svyazochного apparata u zhenshchin s disfunktsiej organov tazovogo dna

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**MR-enterography in the diagnosis of emergency conditions in the abdominal cavity and the pelvic cavity associated with diseases of the small intestine**  
**S62**

*Sobko, V.Yu.; Karpenko, A.K.; Bogdanova, E.O.; Dmitriev, A.A. (Konsul'tativno-Diagnosticheskij Tsentr s Poliklinikoj, Sankt-Peterburg (RU))*

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**The ability of MSCT and SPECT in the diagnosis thromboembolia of the pulmonary arteries**

**S62**

*Sokolova, V.A.; Men'shikova, E.S.; Kushnir, A.S.; Varennikova, A.A. (Dorozhnaya Klinicheskaya Bol'nitsa na Stantsii «Chelyabinsk» OAO «RZhD», Chelyabinsk (RU))*

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### **Multislice computed tomography as the method of choice in diagnostics of chronic inflammatory diseases of the middle ear**

**S62**

*Sokolova, L.V.; Fastakovskaya, E.V.; Krivoshej, I.F.; Smirnov, A.A. (Gorodskaya Klinicheskaya Bol'nitsa No. 1, Chelyabinsk (RU))*

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### **Abdominal MRI and CT in diagnosis of tuberous sclerosis**

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*Suanova, E.T.; Chitadze, A.A.; Makashova, E.S. (Moskovskij Gosudarstvennyj Mediko-Stomatologicheskij Univ. im. A.I. Evdokimova, Moscow (RU))*

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### **Actual problems of treatment response assessment in Hodgkin disease by the PET-CT data**

**S62**

*Subbotin, A.S.; Afanas'eva, N.G.; Vazhenin, A.V. (Chelyabinskij Oblastnoj Klinicheskij Tsentr Onkologii i Yadernoj Meditsiny, Chelyabinsk (RU))*

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### **Difficulties in the differential diagnosis of Crohn's disease during MR-enterography**

**S62**

*Subbotina, O.A.; Rezakova, M.V.; Shevchenko, A.V. (Nauchno-Issledovatel'skij Inst. Fiziologii i Fundamental'noj Meditsiny, Novosibirsk (RU))*

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### **Chest magnetic resonance imaging – limitations and future perspectives**

**S62**

*Sudarkina, A.V.; Dergilev, A.P. (Dorozhnaya Klinicheskaya Bol'nitsa na Stantsii Novosibirsk – Glavnyj OAO «RZhD», Novosibirsk (RU); Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU)); Gorbunov, N.A.; Kozlov, V.V.; Chikinev, Yu.V. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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### **The ability of contrast MR venography of the veins of the retroperitoneal space in children and adolescents**

**S62**

*Tarasenko, L.L. (Surgutskaya Klinicheskaya Travmatologicheskaya Bol'nitsa, Surgut (RU))*

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### **The location of magnetic resonance imaging in the planning and effectiveness of combined treatment**

**S62**

*Tarba, N.S.; Galyan, T.N.; Khovrin, V.V.; Filin, A.V.; Metelin, A.V. (Rossijskij Nauchnyj Tsentr Khirurgii im. Akademika B.V. Petrovskogo, Moscow (RU))*

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### **Contrast-enhanced spectral mammography in the diagnosis of breast cancer**

**S62**

*Tarelkina, A.A. (Rossijskij Nauchnyj Tsentr Rentgenoradiologii, Moscow (RU))*

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### **New opportunities and new approaches in radiodiagnosis. Functional MSCT in assessing the stability of the cervical spine**

**S62**

*Ternovoj, S.K.; Abramov, A.S.; Serova, N.S.; Ternovoj, K.S. (Pervyj Moskovskij Gosudarstvennyj Meditsinskij Univ. im. I.M. Sechenova, Moscow (RU))*

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### **The influence of carrier addition on the pharmacokinetics of bone-seeking radiopharmaceutical «<sup>188</sup>Re-oxa-bis(ethylenitrilo)tetramethylenephosphonic acid»**

**S62**

*Tishchenko, V.K.; Petriev, V.M.; Smoryzanova, O.A.; Skvortsov, V.G. (Meditsinskij Radiologicheskij Nauchnyj Tsentri im. A.F. Tsyba, Obninsk (RU))*

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Vliyanie nositelya na farmakokinetiku osteotropnogo radiofarmpreparata «188Re-oksa-  
bis(ehtilennitrilo)tetrametilenfosfonovaya kislota»

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188; NITRILES; PHOSPHONIC ACIDS; RATS; DISTRIBUTION; RADIOACTIVITY;  
RADIOTHERAPY

---

### **The hemodynamics features in carotid artery in atherosclerosis by date of magnetic resonance imaging**

**S62**

*Tulupov, A.A. (Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk  
(RU); Mezhdunarodnyj Tomograficheskij Tsent, Novosibirsk (RU)); Plegunova, S.I.*

*(Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU));*

*Stankevich, Yu.A. (Mezhdunarodnyj Tomograficheskij Tsent, Novosibirsk (RU))*

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Osobennosti gemodinamiki v sisteme sonnoj arterii v usloviyakh ateroskleroza po dannym  
magnitno-rezonansnoj tomografii

p. 183-184

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RESONANCE; BIOMEDICAL RADIOGRAPHY; COMPARATIVE EVALUATIONS;  
REYNOLDS NUMBER; TOMOGRAPHY

---

### **Application of FMRI in the assessment of the neuronal activity in patients with fragile X syndrome**

**S62**

*Tulupov, A.A. (Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU); Mezhdunarodnyj Tomograficheskij Tsentr, Novosibirsk (RU)); Isanova, E.R.; Rymareva, Yu.M. (Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU)); Savelov, A.A.; Petrovskij, E.D. (Mezhdunarodnyj Tomograficheskij Tsentr, Novosibirsk (RU)); Yudkin, D.V. (Inst. Molekulyarnoj i Kletочноj Biologii, Novosibirsk (RU))*

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Vozmozhnosti funktsional'noj magnitno-rezonansnoj tomografii v otsenke nejronal'noj aktivnosti u patsientov s sindromom Martina-Bell

p. 184-185

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244 p.

PATIENTS; MAGNETIC RESONANCE; TOMOGRAPHY; HUMAN X CHROMOSOME; HEREDITARY DISEASES; COMPARATIVE EVALUATIONS; BRAIN

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**Non-contrast magnetic resonance angiography in patients with abdominal and pelvic vein pathology**

**S62**

*Tulupov, A.A. (Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU); Mezhdunarodnyj Tomograficheskij Tsentr, Novosibirsk (RU)); Sevost'yanova, K.S. (Novosibirskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ., Novosibirsk (RU)); Inst. Khimicheskoy Biologii i Fundamental'noj Meditsiny Sibirskogo Otdeleniya Rossijskoj Akademii Nauk, Novosibirsk (RU))*

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Beskontrastnaya magnitno-rezonansnaya angiografiya u patsientov s patologiej ven bryushnoj polosti i malogo taza

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## **Experience in the use of PET/CT in radiotherapy planning of non-small cell lung cancer**

**S62**

*Tyurin, A.V. (OOO «PEhT-Tekhnolodzhi», Lipetsk (RU)); Shinkarev, S.A.; Borisov, V.A. (Lipetskij Oblastnoj Onkologicheskij Dispanser, Lipetsk (RU)); Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Nejkirurgii im. Akademika N.N. Burdenko, Voronezh (RU)); Zajtsev, I.G.; Shiryayeva, S.G. (Lipetskij Oblastnoj Onkologicheskij Dispanser, Lipetsk (RU))*

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PATIENTS; LUNGS; NEOPLASMS; CT-GUIDED RADIOTHERAPY; ABSORBED RADIATION DOSES; COMPUTERIZED TOMOGRAPHY

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## **Long-term results of endovascular treatment of patients with an aneurysm of the abdominal aorta**

**S62**

*Uzhakhov, I.R.; Shlojdo, E.A.; Sukhov, V.K. (Gorodskaya Mnogoprofil'naya Bol'nitsa No. 2, Sankt-Peterburg (RU))*

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Otdalennye rezul'taty ehndovaskulyarnogo lecheniya bol'nykh s anevrizmoj bryushnoj aorty

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PATIENTS; ARTERIES; GASTROINTESTINAL TRACT; VASCULAR DISEASES;  
COMPUTERIZED TOMOGRAPHY; SURGERY; THERAPY; COMPARATIVE  
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## **Noise reduction as a tool of increasing the informative value of brain CT.**

### **Preliminary data**

**S62**

*Usanov, M.S.; Kul'berg, N.S.; Gromov, A.I.; Petryajkin, A.V.; Afandiev, R.M.; Morozov, S.P.; Kim, S.Yu. (Nauchno-Prakticheskij Tsentr Meditsinskoj Radiologii, Moscow (RU))*

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Shumopodavlenie kak sredstvo povysheniya informativnosti komp'yuternoj tomografii golovnogo mozga. Predvaritel'nye dannye

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PATIENTS; ACCURACY; SENSITIVITY; DIAGNOSIS

---

## **Role of contrast-enhanced MRI of arterial wall and atherosclerotic plaques in arteries and aorta in prognosis of ischemic complications of extensive atherosclerosis**

**S62**

*Usov, V.Yu. (Nauchno-Issledovatel'skij Inst. Kardiologii, Tomsk (RU); Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)); Bobrikova, E.Eh.; Maksimova, A.S. (Nauchno-Issledovatel'skij Inst. Kardiologii, Tomsk (RU)) (and others)*

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Magnitno-rezonansnaya tomografiya s paramagnitnym kontrastnym usileniem arterial'noj stenki i ateroskleroticheskikh blyashek krupnykh arterij i aorty v prognozirovanii oslozhnenij rasprostranennogo ateroskleroza

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PATIENTS; DIAGNOSIS; MAGNETIC RESONANCE; COMPUTERIZED TOMOGRAPHY;  
PATHOLOGY; ARTERIES; BLOOD VESSELS; CONTRAST MEDIA; COMPARATIVE  
EVALUATIONS

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## **Magnetic resonance imaging of the chest with contrast enhancement as a tool in diagnosis and staging of the lung cancer**

**S62**

*Usov, V.Yu.; Luk'yanenok, P.I. (Nauchno-Issledovatel'skij Inst. Kardiologii Tomskogo Natsional'nogo Issledovatel'skogo Meditsinskogo Tsentra, Tomsk (RU)); Kolomiets, S.A. (Kemerovskij Oblastnoj Onkologicheskij Dispanser, Kemerovo (RU)); Miller, S.V.; Zav'yalov, A.A. (Nauchno-Issledovatel'skij Inst. Onkologii Tomskogo Natsional'nogo Issledovatel'skogo Meditsinskogo Tsentra, Tomsk (RU)); Gulyaev, V.M. (Nauchno-Issledovatel'skij Inst. Kardiologii Tomskogo Natsional'nogo Issledovatel'skogo Meditsinskogo Tsentra, Tomsk (RU)); Tomskij Oblastnoj Onkologicheskij Dispanser, Tomsk (RU)); Pyzhova, I.B. (Tomskij Oblastnoj Onkologicheskij Dispanser, Tomsk (RU))*

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Magnitno-rezonansnaya tomografiya grudnoj kletki s paramagnitnym kontrastnym usileniem v diagnostike i otsenke rasprostranennosti raka legkogo

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RESONANCE; DIAGNOSIS; CONTRAST MEDIA; MEN; ISCHEMIA; COMPARATIVE  
EVALUATIONS; COMBINED THERAPY; EFFICIENCY

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## **Technical and methodical aspects of scanning protocols for liver biopsy under MRI**

**S62**

*Fedorov, A.V.; Berezina, N.A.; Cherkashin, M.A.; Lavrent'eva, A.I. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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Tekhnicheskie i metodicheskie aspekty protokolov skanirovaniya pri biopsii pecheni pod kontrolem MRT

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LIVER; PATIENTS; BIOPSY; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; DIAGNOSIS; ACCURACY; BREATH

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## **Methodological features use of three-dimensional pulse sequences in MRI medical practice**

**S62**

*Fedorov, A.V.; Berezina, N.A.; Cherkashin, M.A.; Lavrent'eva, A.I. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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Metodicheskie osobennosti primeneniya trekhmernykh impul'snykh posledovatel'nostej v praktike vracha MRT

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---

## **Magnetic resonance and computed tomography for planning of surgical treatment of left ventricular aneurysm**

**S62**

*Fokin, A.V. (Chelyabinskaya Oblastnaya Klinicheskaya Bol'nitsa, Chelyabinsk (RU)); Sinitsyn,*

V.E. (*Lechebno-Reabilitatsionnyj Tsentr Minzdrava Rossii, Moscow (RU)*)

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Magnitno-rezonansnaya i komp'yuternaya tomografiya v planirovanii khirurgicheskogo lecheniya anevrizm levogo zheludochka

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HEART; MYOCARDIAL INFARCTION; DIAGNOSIS; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; PATIENTS; CONTRAST MEDIA; COMPARATIVE EVALUATIONS

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**The possibility of diffusion-tensor tomography of fetus brain**

**S62**

*Khalikov, A.D.; Trofimova, T.N. (Rossijsko-Finskaya Klinika «Skandinaviya» OOO «NMTs-Tomografiya», Sankt-Peterburg (RU); Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU); Inst. Mozga Cheloveka im. N.P. Bekhterevoj, Sankt-Peterburg (RU));*

*Semenova, M.D. (Inst. Mozga Cheloveka im. N.P. Bekhterevoj, Sankt-Peterburg (RU); Rossijskij Nauchnyj Tsentri Radiologii i Khirurgicheskikh Tekhnologij, Sankt-Peterburg (RU))*

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Vozmozhnosti provedeniya diffuzionno-tenzornoj magnitno-rezonansnoj tomografii golovnog mozga ploda

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COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; FETUSES; BRAIN; DIAGNOSIS

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**Some specific MR-imaging patterns of visualization of neuronal-glial tumors in**

## **children**

**S62**

*Khalilov, V.S. (Tsentral'naya Detskaya Klinicheskaya Bol'nitsa, Moscow (RU); Rossijskij Natsional'nyj Issledovatel'skij Meditsinskij Univ. im. N.I. Pirogova, Moscow (RU)); Kholin, A.A. (Rossijskij Natsional'nyj Issledovatel'skij Meditsinskij Univ. im. N.I. Pirogova, Moscow (RU)); Kostylev, F.A. (Rossijskaya Detskaya Klinicheskaya Bol'nitsa, Moscow (RU)); Medvedeva, N.A.; Gubachikova, F.A. (Tsentral'naya Detskaya Klinicheskaya Bol'nitsa, Moscow (RU))*

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## **The importance of the medical diagnostic algorithms for non-parasitic liver cysts**

**S62**

*Khatsko, V.V.; Vakulenko, I.P.; Fominov, V.M.; Parkhomenko, A.V. (Donetskij Natsional'nyj Meditsinskij Univ. im. M. Gor'kogo, Donetsk (UA))*

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## **Diffusion-weighted imaging and other magnetic resonance pulse sequences in the diagnosis of diffuse bone marrow involvement in patients with non-Hodgkin lymphomas**

**S62**

*Khoruzhik, S.A.; Zhavrid, Eh.A.; Karman, A.V. (Respublikanskij Nauchno-Prakticheskij Tsentr Onkologii i Meditsinskoj Radiologii im. N.N. Aleksandrova, Minsk (BY))*

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Diffuzionno-vzveshennoe issledovanie i drugie magnitno-rezonansnye impul'snye

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MAGNETIC RESONANCE; DIAGNOSIS; COMPARATIVE EVALUATIONS;  
EFFICIENCY; BIOPSY; SENSITIVITY

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## **Diffusion-weighted magnetic resonance imaging in the diagnosis of pulmonary involvement in patients with lymphoma**

**S62**

*Khoruzhik, S.A.; Zhavrid, Eh.A.; Sachivko, N.V. (Respublikanskij Nauchno-Prakticheskij Tsentr Onkologii i Meditsinskoj Radiologii im. N.N. Aleksandrova, Minsk (BY))*

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LYMPHOMAS; LUNGS; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE;  
DIAGNOSIS; SENSITIVITY; PATIENTS

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### **Diffusion-weighted magnetic resonance imaging in the diagnosis of spleen involvement in patients with lymphoma**

**S62**

*Khoruzhik, S.A.; Zhavrid, Eh.A.; Sachivko, N.V.; Karman, A.V. (Respublikanskij Nauchno-Prakticheskij Tsentri Onkologii i Meditsinskoj Radiologii im. N.N. Aleksandrova, Minsk (BY))*

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PATIENTS; LYMPHOMAS; SPLEEN; DIAGNOSIS; COMPUTERIZED TOMOGRAPHY;  
MAGNETIC RESONANCE; ULTRASONOGRAPHY; COMPARATIVE EVALUATIONS;  
CONTRAST MEDIA; SENSITIVITY

---

### **Clinical and X-ray features of infiltrative tuberculosis in patients with type II diabetes mellitus**

**S62**

*Chaadaeva, Yu.A. (Novosibirskaya Tuberkuleznaya Bol'nitsa, Novosibirsk (RU)); Manakova, Ya.L.; Dergilev, A.P.; Zyryanova, T.V. (Novosibirskij Gosudarstvennyj Meditsinskij Univ., Novosibirsk (RU))*

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PATIENTS; TUBERCULOSIS; DIABETES MELLITUS; BIOMEDICAL RADIOGRAPHY;  
TOMOGRAPHY; DIAGNOSIS; COMPARATIVE EVALUATIONS; PATHOLOGY

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### **Core-needle solid tumors biopsies under CT and MR-navigation. Ticks and trips S62**

*Cherkashin, M.A.; Puchkov, D.D.; Berezina, N.A.; Fedorov, A.V.; Nikitina, N.V.; Anishkin, M.Yu.; Fedorova, E.A. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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Trepan-biopsii solidnykh opukholej pod kontrolem KT i MRT. Ticks and trips

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PATIENTS; NEOPLASMS; BIOPSY; COMPUTERIZED TOMOGRAPHY; MAGNETIC  
RESONANCE; POSITRON COMPUTED TOMOGRAPHY; DIAGNOSIS

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### **Physicians education for port-system implantation based on CME concept S62**

*Cherkashin, M.A.; Serov, A.V.; Berezina, N.A.; Puchkov, D.D.; Nikitina, N.V. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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Obuchenie vrachej khirurgicheskikh spetsial'nostej implantatsii port-sistem postoyannogo venoznogo dostupa v modeli nepreryvnogo meditsinskogo obrazovaniya

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### **Indications and technique for femoral access port-systems implantation**

**S62**

*Cherkashin, M.A.; Serov, A.V.; Berezina, N.A.; Puchkov, D.D.; Suprun, K.S.; Kuplevatskaya, D.I.; Nikitina, N.V. (Meditsinskij Inst. im. Berezina Sergeya, Sankt-Peterburg (RU))*

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### **Mammography and mammoscintigraphy with <sup>99m</sup>Tc-MIBI in diagnostic of multicentric breast cancer**

**S62**

*Chernaya, A.V.; Kanaev, S.V.; Novikov, S.N.; Krivorot'ko, P.V.; Krzhivitskij, P.I.; Bus'ko, E.A.; Popova, N.S.; Petrova, A.S.; Mishchenko, A.V. (Nauchno-Issledovatel'skij Inst. Onkologii im. N.N. Petrova, Sankt-Peterburg (RU))*

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8-10 Nov 2017

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BIOMEDICAL RADIOGRAPHY; DIAGNOSIS; COMPARATIVE EVALUATIONS;  
SENSITIVITY; ACCURACY; SPECIFICITY

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### **The first experience of using CT-MRI perfusion in brain volume lesions**

**S62**

*Chernova, O.N.; Vazhenin, A.V.; Sukhanov, V.A.; Shubnyj, M.O.; Vasil'kova, I.V.; Reshetova, T.A.; Dubrovskaya, N.S. (Chelyabinskij Oblastnoj Klinicheskij Tsentr Onkologii i Yadernoj Meditsiny, Chelyabinsk (RU))*

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BLOOD CIRCULATION; COMPARATIVE EVALUATIONS

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### **CBCT and MSCT in differential diagnosis of cystic formations of the jaws of odontogenic origin**

**S62**

*Chibisova, M.A.; Zubareva, A.A.; Dudarev, A.L.; Kajzerov, E.V. (Sankt-Peterburgskij Inst. Stomatologii Poslediplomnogo Obrazovaniya, Sankt-Peterburg (RU))*

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PATIENTS; CYSTS; JAW; TOMOGRAPHY; BIOMEDICAL RADIOGRAPHY;  
COMPARATIVE EVALUATIONS; HISTOLOGY

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### **Minimally invasive surgical procedures are under multidetector computed tomography control**

**S62**

*Shevchenko, Yu.V.; Dertyshnikov, E.G.; Danchinov, V.M. (Gorodskaya Klinicheskaya Bol'nitsa No. 1, Irkutsk (RU)); Seliverstov, P.V. (Irkutskij Nauchnyj Tsentr Khirurgii i Travmatologii, Irkutsk (RU))*

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Maloinvazivnye khirurgicheskie manipuljatsii pod kontrolom mul'tispiral'noj komp'yuternoj tomografii

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COMPUTERIZED TOMOGRAPHY; PATIENTS; ABDOMEN; SURGERY;  
PATHOLOGICAL CHANGES; DIAGNOSIS

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### **Computed tomography in diagnosis of granulomatosis with polyangiitis**

**S62**

*Shejkh, Zh.V.; Klimko, S.V.; Arablinskij, A.V.; Zakharova, E.V. (Gorodskaya Klinicheskaya Bol'nitsa im. S.P. Botkina, Moscow (RU)); Tyurin, I.E.; Nikolaev, Eh.V.; Gazaryan, Ya.R. (Rossijskaya Meditsinskaya Akademiya Nepreryvnogo Professional'nogo Obrazovaniya, Moscow (RU)); Dunaev, A.P. (Gorodskaya Klinicheskaya Bol'nitsa No. 52, Moscow (RU)); Drebushevskij, N.S. (Poliklinika No. 1, Moscow (RU))*

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GRANULOMAS; NEOPLASMS; ACCURACY

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### **Emergent computed tomography in mountain-skier trauma**

**S62**

*Shershnev, S.V.; Kesyana, E.M.; Bartashevich, V.V. (Gorodskaya Bol'nitsa No. 8, Sochi (RU));*

*Ipatov, V.V.; Zheleznyak, I.S.; Bojkov, I.V.; Malakhovskij, V.N.; Babirin, V.S.; Tataritskij, N.I.*

*(Voenno-Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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COMPUTERIZED TOMOGRAPHY; PATIENTS; BONE FRACTURES; HEAD; CHEST;  
ABDOMEN; PELVIS; HANDS; LEGS; DIAGNOSIS

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### **Radiologic imaging in choosing tactics of sanatorium rehabilitation programs in patients with degenerative spine disease**

**S62**

*Shershnev, S.V.; Ipatov, V.V.; Zheleznyak, I.S.; Zakolodnev, I.N.; Bojkov, I.V.; Dergunova, N.I.;*

*Rameshvili, T.E.; Babirin, V.S. (Ob'edinennyj Sanatorij «Sochi», Sochi (RU); Voenno-*

*Meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))*

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Luchevye metody issledovaniya v taktike vybora programm sanatorno-kurortnogo lecheniya u bol'nykh degenerativno-distroficheskimi porazheniyami pozvonochnika

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RESONANCE; DIAGNOSIS; COMPARATIVE EVALUATIONS; SKELETAL DISEASES

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**CT volumetry for primary gastric lesions in predicting pathologic response to neoadjuvant chemotherapy in locally advanced gastric cancer**

**S62**

*Shrajner, I.V.; Klimenko, A.O.; Pilyus, P.S.; Sinitsyn, V.E. (Lechebno-Reabilitatsionnyj Tsentr Minzdrava Rossii, Moscow (RU))*

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PATIENTS; LIVER; NEOPLASMS; COMPUTERIZED TOMOGRAPHY; MAGNETIC  
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**The craniospinal and local irradiation effects on adrenal function of patients following brain tumors or lymphoma complex therapy at an early age**

**S63**

*Yudina, A.E.; Pavlova, M.G.; Tseloval'nikova, T.Yu. (Pervyj Moskovskij Gosudarstvennyj Meditsinskij Univ. im. I.M. Sechenova, Moscow (RU)); Sotnikov, V.M.; Zheludkova, O.G. (Rossijskij Nauchnyj Tsentr Rentgenoradiologii, Moscow (RU)); Mazerkina, N.A. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Nejrokhirurgii im. Akademika N.N. Burdenko, Moscow (RU))*

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Vliyanie kraniospinal'nogo i lokal'nogo oblucheniya na funktsiyu nadpochechnikov u lits, perenessikh kompleksnuyu terapiyu opukholej golovnogogo mozga ili limfomy Khodzhkina v

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PATIENTS; BIOLOGICAL RADIATION EFFECTS; RADIOTHERAPY; AGE GROUPS; NEOPLASMS; BRAIN; HODGKINS DISEASE; ADRENAL GLANDS; COMBINED THERAPY; ADRENAL HORMONES; COMPARATIVE EVALUATIONS

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### **The results of neurotractography of children born with low and extremely low body weight**

**S62**

*Yakovenko, M.P. (Kubanskij Gosudarstvennyj Meditsinskij Univ., Krasnodar (RU))*

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Moscow (RU)

8-10 Nov 2017

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### **The experience of using of gadolinium-containing contrast agents in patients with hemoblastosis**

**S62**

*Yatsyk, G.A.; Lutsik, N.S.; Ivanova, K.Eh.; Solov'eva, A.A.; Dzhulakyan, U.L.; Dvirnyk, V.N. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Gematologii, Moscow (RU))*

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244 p.

PATIENTS; CONTRAST MEDIA; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; BLOOD; CREATININE; COMPARATIVE EVALUATIONS

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**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017). Abstracts  
S22;S12;S38**

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

Sosnovyj Bor (RU)

30 May - 1 Jun 2017

Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017). Tezisy dokladov

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Sankt-Peterburg (RU)

Izd-vo VVM

2017

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LEADING ABSTRACT; MEETINGS; NUCLEAR POWER PLANTS; RADIOCHEMICAL ANALYSIS; SAFETY; RADIATION MONITORING; RADIOACTIVE WASTES; ENVIRONMENTAL EFFECTS; PROCESS SOLUTIONS; AUTOMATION

Abstracts of the Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika#Minus Sign#2017) are presented. The conference was held in the following areas: chemical and radiochemical control of technological environments of nuclear power plants and nuclear power units (methodological and metrological support, instrumental solutions, hardware and software automation); environmental control at nuclear facilities; chemical technologies for the operation of nuclear power plants and nuclear power units. The



results of technological and research control at nuclear facilities and technologies for storage and processing of radioactive waste were discussed. During the conference, plenary sessions, round tables, and meetings on relevant topics were held. There was a training exhibition-seminar of modern analytical techniques and other relevant products from leading Russian and foreign manufacturers

Представлены тезисы докладов Восьмой научно-технической конференции «Проблемы и перспективы развития химического и радиохимического контроля в атомной энергетике» (Атомэнергоаналитика#Minus Sign#2017). Работа конференции проводилась по следующим направлениям: химический и радиохимический контроль технологических сред АЭС и ЯЭУ (методическое и метрологическое обеспечение, инструментально-аппаратурные решения, технические и программные средства автоматизации); экологический контроль на объектах атомной энергетики; химические технологии эксплуатации АЭС и ЯЭУ. Обсуждались результаты технологического и исследовательского контроля на объектах атомной энергетики и технологии хранения и переработки радиоактивных отходов. Во время работы конференции проводились пленарные заседания, круглые столы, совещания по актуальной тематике. Работала обучающая выставка-семинар современной аналитической техники и другой актуальной продукции от ведущих российских и зарубежных производителей

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## **On ways of progress in the methodology of chemical and analytical control in atomic energy**

**S37**

*Moskvin, L.N. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

Sosnovyj Bor (RU)

30 May - 1 Jun 2017

Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

O putyakh progressa v metodologii khimiko-analiticheskogo kontrolya v atomnoj ehnergetike p. 7

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017).

Abstracts

Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017). Tezisy dokladov

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CHEMICAL ANALYSIS; NUCLEAR ENERGY; AQUEOUS SOLUTIONS; MEASURING INSTRUMENTS; DECISION MAKING; MEASURING METHODS; QUALITY CONTROL

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**The results of the fuel cladding leak detection during the life tests of the transport reactor cores on the bench nuclear units**

**S22**

*Orlenkov, I.S.; Moskvin, L.N.; Filin, R.D. (FGUP «NITI im. A. P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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(Atomehnergoanalitika—2017)

Rezul'taty kontrolya germetichnosti obolochek tvehlov pri resursnykh ispytaniyakh aktivnykh zon transportnykh reaktorov na stendovykh YaEhU

p. 8-10

(RU)

3 refs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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FUEL ELEMENTS; REACTOR CORES; BENCH-SCALE EXPERIMENTS; FEASIBILITY STUDIES; FUEL CANS; FAILED ELEMENT DETECTION; RADIOCHEMICAL ANALYSIS

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**Improving the water chemistry at foreign nuclear power plants (based on materials from the International conference NPC 2016)**

**S22**

*Yurmanov, V.A.; Arkhipov, O.P.; Palatova, S.V. (AO «NIKIEhT», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

Sovershenstvovanie vodno-khimicheskogo rezhima na zarubezhnykh AEhS (po materialam

mezhdunarodnoj konferentsii NPC-2016)

p. 10-14

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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WATER CHEMISTRY; NUCLEAR POWER PLANTS; FAILED ELEMENT DETECTION; INTERNATIONAL COOPERATION; BENCH-SCALE EXPERIMENTS; WATER COOLED REACTORS; PRIMARY COOLANT CIRCUITS; SECONDARY COOLANT CIRCUITS; REACTOR SAFETY

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## **Analytical support of spent nuclear fuel reprocessing**

**S12**

*Palagin, P.A.; Tadevosyan, Yu.A.; Tananaev, I.G.; Naumov, V.N.; Kiseleva, E.S. (FGUP «PO «Mayak», Ozersk (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Analiticheskoe soprovozhdenie pererabotki OYaT

p. 14-15

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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SPENT FUELS; MAYAK PLANT; REPROCESSING; REVIEWS; QUALITATIVE CHEMICAL ANALYSIS; SAFETY; HOT LABS

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## **New possibilities of electrochemical methods in the control of technological aqueous media of nuclear energy**

**S37**

*Ermakov, S.S. (Sankt-Peterburgskij Gosudarstvennyj Univ., Inst. Khimii, Sankt-Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

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Novye vozmozhnosti ehlektrokhimicheskikh metodov v kontrole tekhnologicheskikh vodnykh sred atomnoj ehnergetiki

p. 15-16

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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WATER CHEMISTRY; AMPEROMETRY; VOLTAMETRY; SENSITIVITY; COMMUTATION RELATIONS; FARADAY CURRENT

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## **Calibration of pH meters and pH measurement of extremely dilute aqueous solutions**

**S37**

*Larin, B.M.; Larin, A.B.; Sorokina, A.Ya. (FGBOU VO «Ivanovskij Gosudarstvennyj Ehnergeticheskij Univ. im. V.I. Lenina», Ivanovo (RU)); Kiet, S.V. (NPP «Tekhnopribor», Moscow (RU))*

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Kalibrovka pH-metrov i izmerenie pH predel'no razbavlennykh vodnykh rastvorov

p. 16-19

(RU)

2 refs., 1 tab.

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## **New capabilities of metrological support for measurements of organic components at nuclear facilities**

**S37**

*Krylov, A.I. (FGUP «VNIIM im. D.I. Mendeleeva», Sankt-Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Novye vozmozhnosti metrologicheskogo obespecheniya izmerenij organicheskikh komponentov na ob"ektakh atomnoj promyshlennosti

p. 20-23

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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QUANTITATIVE CHEMICAL ANALYSIS; QUALITATIVE CHEMICAL ANALYSIS; NUCLEAR POWER PLANTS; METROLOGY; MONITORING; ECOLOGICAL CONCENTRATION; TBP; CHROMATOGRAPHY; MASS SPECTROSCOPY

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## **Primary coolant control systems in normal operation and emergency conditions in the «Hanhikivi» NPP design**

**S22**

*Bagerman, M.R.; Marchuk, O.N.; Zdereva, E.G. (AO ATOMPROEKT, Sankt-Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

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Sistemy kontrolya teplonositelya pervogo kontura v rezhime normal'noj ehkspluatatsii i v avarijnykh rezhimakh v proekte AEhS «Khankhikivi»

p. 23-26

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## **Statutory regulation of water chemistry at nuclear power plants of Russia**

**S22**

*Kharitonova, N.L.; Sharafutdinov, R.B. (FBU «NTTs YaRB», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Normativnoe regulirovanie vodno-khimicheskikh rezhimov na AEhS Rossii

p. 26-27

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)



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WATER CHEMISTRY; NUCLEAR POWER PLANTS; RUSSIAN FEDERATION;  
REACTOR SAFETY; REGULATIONS; RADIATION PROTECTION

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## **Control of organic impurities in technological water media of a nuclear power plant**

**S37**

*Tsapko, Yu.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU); Inst. Yadernoj Ehnergetiki (Filial) FGBOU VPO SPbPU, Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Kontrol' organicheskikh primesej v tekhnologicheskikh vodnykh sredakh YaEhU

p. 28-29

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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NUCLEAR POWER PLANTS; IMPURITIES; ORGANIC COMPOUNDS; COOLANTS;  
QUALITATIVE CHEMICAL ANALYSIS; QUANTITATIVE CHEMICAL ANALYSIS

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## **Problem solving for water coolant quality control at modern NPP using automatic control equipments**

**S22**



*Kiet, V.G.; Kiet, S.V. (OOO «NPP «Tekhnopribor», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Vos'maya nauchno-tekhnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

Reshenie zadach kontrolya kachestva vodnogo teplonositelya na sovremennykh AEhS s pomoshch'yu priborov avtomaticheskogo kontrolya

p. 29-33

(RU)

3 figs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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**Application of automatic analyzers of salt, acid, alkali aqueous solutions at «Rosenergoatom» facilities**

**S37**

*Petrov, Yu.F.; Shmelev, S.G.; Balanin, A.P.; Deryabin, V.M.; Pavlov, D.D.; Abramov, V.I.; Znamenskij, D.P. (ZAO «NPP «AVTOMATIKA», Vladimir (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Primenenie avtomaticheskikh analizatorov vodnykh rastvorov solej, kislot, shchelochej na ob"ektakh «Rosehnergoatom»

p. 33-36

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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NUCLEAR POWER PLANTS; AUTOMATION; RELIABILITY; NONDESTRUCTIVE ANALYSIS; MEASURING INSTRUMENTS; PH VALUE; AQUEOUS SOLUTIONS

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## **Metrological support tasks and methods of metrological maintenance of measuring channels in automated chemical control systems of nuclear energy facilities under operating conditions**

**S22**

*Vilkov, N.Ya.; Blinov, S.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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(Atomehnergoanalitika—2017)

Zadachi metrologicheskogo obespecheniya i metody metrologicheskogo obsluzhivaniya izmeritel'nykh kanalov sistem AKhK ob'ektov atomnoj ehnergetiki v ehkspluatatsionnykh usloviyakh

p. 37-40

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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## **UV-visible spectroscopy in combination with chemometric data processing for chemical on-line monitoring in spent fuel processing**

**S37**

*Kirsanov, D.O.; Legin, A.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Inst. Khimii, Sankt-Peterburg (RU)); OOO «Sensornye Sistemy», Sankt-Peterburg (RU)); Babain, V.A. (OOO «TriArkMajning», Moscow (RU))*

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UF-vidimaya spektroskopiya v sochetanii s khemometricheskoj obrabotkoj dannykh dlya khimicheskogo on-lain kontrolya pri pererabotke OYaT

p. 40-41

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**Development and application of advanced equipment for monitoring the water-chemical regime of nuclear power plants**

**S22**

*Artem'ev, A.S. (OOO NPVF «Promyshlennaya Ehlektronika», Fryazino, Moskovskaya Obl. (RU)); Miroshnichenko, I.V.; Vilkov, N.Ya.; Blinov, S.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Razrabotka i primenenie perspektivnogo oborudovaniya kontrolya vodno-khimicheskogo rezhima AEhS

p. 42-45

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)  
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MEASURING INSTRUMENTS; MONITORING

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### **Experience in a multivariate physicochemical analysis of corium systems**

**S37**

*Al'myashev, V.I.; Vitol', S.A.; Krushinov, E.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Opyt kompleksnogo fiziko-khimicheskogo analiza koriumnykh sistem

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(RU)

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## **Hybrid densitometer HKED at RT-1 FSUE «PA «Mayak». Application experience**

**S37**

*Romadova, S.I.; Galuzin, D.D.; Levunin, A.S.; Naumov, V.N. (FGUP «PO «Mayak», Ozersk (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

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Gibridnyj densitometr HKED na zavode RT-1 FGUP «PO «Mayak». Opyt primeneniya p. 48-51

(RU)

4 refs., 2 figs., 1 tab.

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## **Methodological recommendations of application of RFA for non-destructive analysis of aqueous solutions of uranium**

**S37**

*Dubrovka, S.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))*

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Metodologicheskie rekomendatsii primeneniya RFA dlya nerazrushayushchego analiza vodnykh rastvorov urana

p. 51-55

(RU)

4 refs.

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## **Automated analysis of gases dissolved in water using the chromatograph**

### **«Chromatek-Gasochrom 2000»**

**S37**

*Gorshkov, A.I.; Shcherbakov, E.E.; Prokhorkina, O.V.; Mel'nichenko, A.N.; Amosov, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Avtomatizirovannyj analiz rastvorenykh v vode gazov s ispol'zovaniem khromatografa «Khromatek-Gazokhrom 2000»

p. 55-56

(RU)

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**Dissolved oxygen and hydrogen analyzers for the primary circuit of NPP,  
problems and solutions**

**S37;S46**

*Rodionov, A.K.; Kutin, A.G. (OOO «VZOR», Nizhnij Novgorod (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of  
chemical and radiochemical control in the nuclear power industry»**

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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Analizatory rastvorenogo kisloroda i vodoroda dlya pervogo kontura AEhS, problemy i  
resheniya

p. 56-58

(RU)

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Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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OXYGEN; HYDROGEN; COOLANTS; MEASURING INSTRUMENTS; PRESSURE  
RANGE MEGA PA 10-100; DISSOLVED GASES

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**«Akvilon» ion chromatographic equipment for the analysis of high-purity  
aqueous media**

**S46**

*Pridantsev, A.A. (AO «Akvilon», Moscow (RU))*

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chemical and radiochemical control in the nuclear power industry»**

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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Ionokhromatograficheskoe oborudovanie kompanii «Akvilon» dlya analiza vysokochistykh



vodnykh sred

p. 58-60

(RU)

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## **Modernization and experience of using NAR-12M boron concentrometers in chemical control at NPP with WWER reactors**

**S37**

*Skachkov, E.V.; Mukhamedov, K.A.; Chuev, A.G.; Shagov, S.V.; Perepadya, A.V.; Gur'yanov, A.O.; Kositsyn, E.M.; Kozyr', D.V.; Svintsov, E.L. (AO «Nauchno-Issledovatel'skij Inst. Tekhnicheskoy Fiziki i Avtomatizatsii», Moscow (RU))*

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Modernizatsiya i opyt primeneniya kontsentratomerov bora NAR-12M v khimicheskom kontrole na AEhS s reaktorami VVEhR

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## **ORTEC spectrometers - solving alpha spectrometry problems**

**S46**

*Buturlin, V.I. (ZAO «PRIBORY», Moscow (RU))*

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## **Detection of iodine-131 at nuclear facilities**

**S46**

*Ivanov, A.A.; Shalamova, V.Yu. (AO «SNIP», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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RADIATION MONITORING; AUTOMATION

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## **The use of water in the laboratory**

**S37**

*Vinovets, A.A. (AO «NPK Mediana-Fil'tr», Moscow (RU))*

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## **Improving the system for monitoring the composition of corrosive media during autoclave tests of constructional materials**

**S37**

*Marchenkov, D.A.; Shut'ko, K.I.; Arkhipov, O.P. (AO «NIKIEhT», Moscow (RU))*

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Sovershenstvovanie sistemy kontrolya sostava korrozionnykh sred pri avtoklavnykh ispytaniyakh konstruktsionnykh materialov

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(RU)

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**The use of a new sorbent for cationic ion chromatographic analysis of NPP processing media**

**S37**

*Gurskij, V.S.; Kharitonova, E.Yu. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Primenenie novogo sorbenta dlya kationnogo ionokhromatograficheskogo analiza tekhnologicheskikh sred AEhS

p. 69-70

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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### **Spectrophotometric determination of uranium (IV) and uranium (VI) in corium samples in the study of NPP severe accidents**

**S37**

*Bliznyuk, V.G.; Vitol', S.A.; Raba, B.O. (FGUP «NITI im. A. P. Aleksandrova», Sosnovyj Bor (RU))*

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Spektrofotometricheskoe opredelenie urana (IV) i urana (VI) v probakh koriuma pri issledovanii tyazhelykh avarij na AEhS

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(RU)

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### **Switching amperometry - a new approach to the determination of dissolved oxygen and iron ions in aqueous media**

**S37**

*Ermakov, S.S.; Gurskaya, A.V.; Navolotskaya, D.V.; Semenova, E.A. (Sankt-Peterburgskij Gosudarstvennyj Univ., Inst. Khimii, Sankt-Peterburg (RU))*

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(RU)

1 fig.

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AMPEROMETRY; VOLTAMETRY; OXYGEN; IRON; CORROSION PRODUCTS; SOLUTIONS; SENSITIVITY; IONS

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**Development of isotope analysis methods for heavy water coolants at the PIK reactor**

**S38**

*Voronina, T.V.; Tugusheva, D.Yu. (NITs «Kurchatovskij Inst. — PIYaF», Gatchina (RU))*

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Razrabotka metodik izotopnogo analiza tyazhelovodnykh teplonositelej na reaktore PIK

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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»  
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HEAVY WATER; PIK REACTOR; ISOTOPE RATIO; CALIBRATION STANDARDS;  
DEUTERIUM; TRITIUM; RADIOMETRIC ANALYSIS; RADIOCHEMICAL ANALYSIS

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### **Determination of chloride- and sulfate-ions in high purity water by capillary electrophoresis**

**S37**

*Kamentsev, M.Ya.; Moskvin, L.N.; Yakimova, N.M. (Sankt-Peterburgskij Gosudarstvennyj Univ., Inst. Khimii, Sankt-Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

Opređenje khlorid- i sul'fat-ionov v vode vysokoj chistoty metodom kapillyarnogo ehlektroforeza

p. 75-76

(RU)

4 refs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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CHLORIDES; SULFATES; QUANTITATIVE CHEMICAL ANALYSIS;  
ELECTROPHORESIS; WATER; IMPURITIES; CONCENTRATION RATIO

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### **Determination of plutonium in NPU processing media**

**S38**

*Epimakhov, V.N.; Amosova, O.A.; Pankina, E.B.; Mysik, S.G.; Olejnik, M.S.; Tsapko, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Vos'maya nauchno-tehnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Opređenje plutoniya v tekhnologicheskikh sredakh YaEhU

p. 76-77

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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PLUTONIUM COMPOUNDS; NUCLEAR POWER PLANTS; FILTRATION;  
RADIOMETRIC ANALYSIS; PROCESS SOLUTIONS; ALPHA SPECTROSCOPY;  
RADIOCHEMICAL ANALYSIS

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**Control of iodine radionuclides in gas emissions from nuclear facilities**

**S54**

*Epimakhov, V.N.; Chetverikov, V.V.; Il'in, V.G.; Baev, M.N. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Kontrol' radionuklidov joda v gazovykh vybrosakh ob'ektov atomnoj ehnergetiki

p. 77-79

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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NUCLEAR POWER PLANTS; IODINE 131; ENVIRONMENTAL EFFECTS; IODINE COMPOUNDS; ORGANIC IODINE COMPOUNDS; ADSORPTION; RADIOCHEMICAL ANALYSIS

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**Flow capillary suppressor for ion chromatographic determination of anions**  
**S37**

*Gurskij, V.S.; Kharitonova, E.Yu. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Protochnyj kapillyarnyj podavitel' dlya ionokhromatograficheskogo opredeleniya anionov p. 79-80

(RU)

1 fig.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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ION EXCHANGE CHROMATOGRAPHY; AUTOMATION; NUCLEAR POWER PLANTS; PROCESS SOLUTIONS; MEMBRANES; LIQUID FLOW; ION EXCHANGE

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**New series of semiconductor detectors on a high-purity germanium crystal from the company ORTEC to solve any gamma-ray spectrometry problems**  
**S46**

*Pokrovskij, I.V. (ZAO «Pribory», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Novye serii poluprovodnikovyykh detektorov na kristalle osobo chistogo germaniya ot firmy ORTEC dlya resheniya lyubykh zadach gamma-spektrometrii  
p. 80-83

(RU)

5 figs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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GAMMA SPECTROSCOPY; GERMANIUM; CRYSTALS; RADIATION DETECTORS; GE SEMICONDUCTOR DETECTORS; EFFICIENCY

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## **Pocket gamma-neutron pager-nuclide identifier SPRD GN, THERMO SCIENTIFIC**

**S46**

*Buturlin, V.I. (ZAO «PRIBORY», Moscow (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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**Karmannyj gamma-nejtronnyj pejdzher-identifikator nuklidov SPRD GN, THERMO SCIENTIFIC**

p. 84-86

(RU)

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**Monitoring the gas composition in the internal cavities of the KV-1 bench  
accident prevention drives**

S37

*Kiryushkin, M.Yu.; Shcherbakov, E.E.; Gorshkov, A.I.; Amosov, A.A.; Dronov, D.A.;  
Mel'nichenko, A.N. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Monitoring gazovogo sostava vnutrennikh polostej privodov avarijnoj zashchity stenda KV-1  
p. 86-87

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya  
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and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017).

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AIR POLLUTION MONITORING; TEST FACILITIES; REACTOR SAFETY; GASES;  
RELIABILITY; ACTUATORS; CONCENTRATION RATIO; CHEMICAL COMPOSITION

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**On the effect of the NPP contour waters matrix with WWER on the  
measurement of anions and cations by ion chromatography on a Dionex ICS-  
5000**

S37

*Maksakova, I.B.; Eliseeva, L.V.; Krylov, A.I. (FGUP «VNIIM im. D.I. Mendeleeva», Sankt-  
Peterburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of  
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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

(Atomehnergoanalitika—2017)

O vliyanii matritsy konturnykh vod atomnykh stantsij s VVEhR na izmerenie anionov i kationov metodom ionnoj khromatografii na ionnom khromatografe Dionex serii ICS-5000  
p. 87-90

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1 tab.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; ION EXCHANGE CHROMATOGRAPHY; SAFETY; PROCESS SOLUTIONS; ANIONS; CATIONS; EXTRACTION COLUMNS

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## **Comparative analysis of control methods for inter-circuit leaks in transport NPU S22**

*Zhizhin, A.V.; Zmitrodan, A.A.; Kornev, Yu.K.; Mitenkov, A.L.; Sarancha, O.N.; Chervyakov, R.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Sravnitel'nyj analiz metodov kontrolya mezhkonturnoj neplotnosti transportnykh YaEhU

p. 91

(RU)

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**The PIK reactor vessel leak detection based on monitoring the protium content in heavy water of the liquid control loop**

S21

Voronina, T.V.; Konoplev, K.A.; Tugusheva, D.Yu. (NITs «Kurchatovskij Inst. — PIYaF», Gatchina (RU))

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017)**

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Kontrol' germetichnosti korpusa reaktora PIK na osnove monitoringa sodержaniya protiya v tyazheloj vode kontura zhidkostnogo regulirovaniya

p. 92-94

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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PIK REACTOR; LEAK TESTING; HEAVY WATER; HYDROGEN 1; REACTOR SAFETY; LEAKS; ISOTOPE RATIO; INFRARED SPECTROMETERS

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**Operational experience of a heavy water reflector of a PIK reactor in the period from 2010 to 2016**

S21

Bondarenko, S.D.; Voronina, T.V.; Zakharov, A.S.; Konoplev, K.A.; Pereverza, G.I.; Tishchenko, V.N.; Tugusheva, D.Yu. (NITs «Kurchatovskij Inst. — PIYaF», Gatchina (RU))

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Opyt ehkspluatatsii tyazhelovodnogo otrazhatelya reaktora PIK v period s 2010 po 2016 gody  
p. 95-97

(RU)

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PIK REACTOR; HEAVY WATER; NEUTRON REFLECTORS; ISOTOPE RATIO; SERVICE  
LIFE; DEUTERIUM; TRITIUM; REACTOR SAFETY; REACTOR OPERATION; TANKS

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## **Corrosion of zirconium clad alloys in LWR**

**S37**

*Kritskij, V.G.; Berezina, I.G.; Motkova, E.A. (AO «ATOMPROEKT», Sankt-Peterburg (RU))*

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Korroziya tsirkonievyykh obolochechnyykh splavov v LWR

p. 97-98

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya  
Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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WATER COOLED REACTORS; CORROSION; OXIDATION; CHEMICAL REACTION  
KINETICS; WATER CHEMISTRY; ZIRCONIUM BASE ALLOYS

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## **Coolant chemistry and corrosion protection of research nuclear reactors**



**S22**

*Yurmanov, V.A.; Kalashnikov, N.S.; Yurmanov, E.V.; Arkhipov, O.P. (AO «NIKIEhT», Moscow (RU))*

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Khimiya teplonositelej i korrozionnaya zashchita issledovatel'skikh yadernykh reaktorov p. 98-99

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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RESEARCH REACTORS; WATER CHEMISTRY; CORROSION PROTECTION; IAEA; RECOMMENDATIONS; SAFETY STANDARDS; SERVICE LIFE

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**Mass transfer of corrosion products in the conditions of the secondary water chemistry regime of WWER NPP**

**S22**

*Kritskij, V.G.; Berezina, I.G.; Gavrilov, A.V.; Motkova, E.A.; Prokhorov, N.A. (AO «ATOMPROEKT», Sankt-Peterburg (RU))*

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Massoperenos produktov korrozii v usloviyakh vodno-khimicheskogo rezhima II kontura AEhS s VVEhR

p. 100

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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MASS TRANSFER; CORROSION PRODUCTS; WATER CHEMISTRY; WWER TYPE REACTORS; SECONDARY COOLANT CIRCUITS; PH VALUE; REACTOR SAFETY; VERIFICATION

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## **A mathematical model of the salt impurities distribution in the secondary circuits of WWER NPP**

**S22**

*Kritskij, V.G.; Pinezhskij, S.O.; Styazhkin, P.S. (AO «ATOMPROEKT», Sankt-Peterburg (RU))*

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Matematicheskaya model' raspredeleniya solevykh primesej vo vtorykh konturakh AEhS s VVEhR

p. 101-102

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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WWER TYPE REACTORS; MASS TRANSFER; SECONDARY COOLANT CIRCUITS; MATHEMATICAL MODELS; SALTS; SEDIMENTS; REACTOR SAFETY

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## **Development of a methodology for maintaining the circulating water mode in the cooling system of the Rostov-3 main equipment under the conditions of BIG-1 operation with dismantled sprinklers and support beams**

**S22**

*Spiridonov, D.V.; Skobeleva, N.V.; Sitishev, V.A. (AO IK «ASEh», Nizhnij Novgorod (RU))*  
**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**  
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Razrabotka metodologii vedeniya VKhR oborotnoj vody sistemy okhlazhdeniya osnovnogo oborudovaniya ehnergobloka No. 3 Rostovskoj AEhS v usloviyakh ehkspluatatsii BIG-1 s demontirovannymi orositelyami i opornymi balkami

p. 102-105

(RU)

6 refs., 1 tab.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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ROSTOV-3 REACTOR; REACTOR COOLING SYSTEMS; MONITORING; WATER CHEMISTRY; MASS TRANSFER; WATER; MAINTENANCE

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## **Analysis of the reasons for operational disorder in the work of the evaporative cooling tower of the Rostov-3 reactor**

**S37;S21**

*Spiridonov, D.V.; Skobeleva, N.V.; Sitishev, V.A. (AO IK «ASEh», Nizhnij Novgorod (RU))*

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Analiz prichin narushenij v rabote bashennoj isparitel'noj gradirni ehnergobloka No. 3 Rostovskoj AEhS

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1 ref.

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WATER CHEMISTRY; EVAPORATION; INHIBITION; SAFETY

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## **Heat and mass transfer and features of the water-chemical gas mode in the primary circuit of the atomic icebreaker reactor installations**

**S22**

*Karnaukhov, V.E.; Ustinov, V.S.; Urtenov, D.S.; Ganzhinov, A.M.; Lukashenko, M.L. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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Teplomassoperenos i osobennosti vodno-khimicheskogo gazovogo rezhima pervogo kontura reaktornykh ustanovok atomnykh ledokolov

p. 108-112

(RU)

1 fig., 1 tab.

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MASS TRANSFER; HEAT TRANSFER; WATER CHEMISTRY; NUCLEAR SHIPS;  
AMMONIA; PRIMARY COOLANT CIRCUITS

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## **Modular system for coolant purification of transport NPU**

**S22**

*Gusev, B.A.; Aleshin, A.M. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Modul'naya sistema ochistki teplonositelya transportnykh YaEhU

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3 refs.

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WATER CHEMISTRY; BENCH-SCALE EXPERIMENTS; NUCLEAR SHIPS; COOLANTS; REACTOR COOLING SYSTEMS

**Development and justification of the water chemistry in the steam generator RU MBIR**

**S21**

*Yurmanov, V.A.; Yurmanov, E.V.; Nikel', O.A. (AO «NIKIEhT», Moscow (RU))*

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Razrabotka i obosnovanie vodno-khimicheskogo rezhima parogeneratora RU MBIR

p. 113-115

(RU)

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CORROSION; FAST REACTORS

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## **Ways to solve the problem of erosion-corrosion at nuclear power plants with RBMK-1000**

**S21**

*Yurmanov, V.A.; Shut'ko, K.I.; Aref'ev, A.A.; Grigorovich, S.M.; Yurmanov, E.V. (AO «NIKIEhT», Moscow (RU))*

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Puti resheniya problemy ehrozii-korrozii na AEhS s RBMK-1000

p. 115-116

(RU)

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RELIABILITY; CORROSION PROTECTION

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## **Behaviour pattern of gaseous degradation products of organic impurities in the coolant of the stand KV-1**

**S22**

*Gorshkov, A.I.; Shcherbakov, E.E.; Kiryushkin, M.Yu.; Amosov, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Osobennosti povedeniya gazoobraznykh produktov razlozheniya organicheskikh primesej v teplonositele stenda KV-1

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(RU)

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## **High-temperature washing technology for steam generator tubes**

**S22;S37**

*Yurmanov, V.A.; Shut'ko, K.I.; Yurmanov, E.V.; Krestnikov, N.S. (AO «NIKIEhT», Moscow (RU))*

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Tekhnologiya vysokotemperaturnoj otmyvki teploobmennykh trub parogeneratorov

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WASHING; HEAT TRANSFER; TUBES; STEAM GENERATORS

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**Features of the water-chemical mode of once-through-type steam generator in transport NPP**

**S22;S37**

*Zakolodnyj, I.N.; Zmitrodan, A.A.; Petukhov, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)); Tsapko, Yu.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)); Inst. Yadernoj Ehnergetiki (Filial) FGBOU VPO SPbPU, Sankt-Peterburg (RU)*

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Osobennosti vodno-khimicheskogo rezhima pryamotochnykh parogeneratorov transportnykh YaEhU

p. 118-120

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1 tab.

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SECONDARY COOLANT CIRCUITS; BENCHMARKS; FEEDWATER

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**Corrosion justification for setting a beryllium neutron moderator for a pool-type reactor**

**S22;S37**

*Yurmanov, V.A.; Kalashnikov, N.S.; Trifonov, Yu.I.; Yurmanov, E.V. (AO «NIKIEhT», Moscow (RU))*

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Korrozionnoe obosnovanie postanovki zamedlitelya potoka nejtronov iz berilliya dlya reaktora bassejnovogo tipa

p. 120-123

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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### **Improving the decontaminating properties of removable polymer compositions S38;S54**

*Koryakovskij, Yu.S.; Akatov, A.A.; Doil'nitsyn, V.A. (Sankt-Peterburgskij Gosudarstvennyj Tekhnologicheskij Inst. (Tehnicheskij Univ.), Sankt-Peterburg (RU))*

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p. 123-124

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DECONTAMINATION; AMMONIUM CHLORIDES; PHOSPHONIC ACIDS;  
RADIOACTIVE WASTES; POLYMERS; FILMS

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**Physicochemical forms of iodine in a primary coolant circuit of a transport NPP  
S22;S37**

*Chetverikov, V.V.; Orlov, S.N.; Fomenkov, R.V.; Epimakhov, V.N.; Tsapko, Yu.V.; Gorshkov, A.I. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Fiziko-khimicheskie formy sushchestvovaniya joda v teplonositele pervogo kontura YaEhU  
transportnogo naznacheniya

p. 125-126

(RU)

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133; IODATES; CONCENTRATION RATIO

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**Ex-core fuel cladding leak detection of irradiated fuel assemblies in  
transportable NPU**

**S22**

*Il'in, V.G.; Epimakhov, V.N.; Chetverikov, V.V.; Sarancha, O.N. (FGUP «NITI im. A.P.  
Aleksandrova», Sosnovyj Bor (RU))*

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Vnereaktornyj kontrol' germetichnosti obolochek tvehlov OTVS TYaEhU

p. 126-127

(RU)

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CONTAINMENT; KRYPTON 85; RADIATION MONITORING

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### **High purity water deoxygenation device UD VVCh-500**

**S37**

*Yasnev, I.M.; Gurskij, V.S.; Dombrovskij, A.P.; Vishnyakova, N.B. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Ustrojstvo deoksigenatsii vody vysokoj chistoty UD VVCh-500

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(RU)

2 refs., 1 tab.

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REDUCTION; ELECTROCHEMISTRY

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## **Investigation into the process of catalytic oxidation of dissolved hydrogen using palladized sorbents**

**S38**

*Yasnev, I.M.; Gurskij, V.S. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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## **Improving electric battery maintenance safety**

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*Gorshkov, A.I.; Amosov, A.A.; Dronov, D.A.; Mel'nichenko, A.N. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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## **The results of laboratory and full-scale tests of homemade sorbents**

**S38**

*Zhizhin, A.V.; Zakolodnyj, I.N.; Zmitrodan, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)); Luzakov, A.V.; Urtenov, D.S.; Shovikov, G.P. (FGBU NITs «Kurchatovskij Inst.», Moscow (RU)); Tsapko, Yu.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)); Inst. Yadernoj Ehnergetiki (Filial) FGBOU VPO SPbPU, Sankt-Peterburg (RU)*

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## **A safe way to primary circuits decontamination of a nuclear power plant in preparation for decommissioning**

**S22**

*Yurmanov, V.A.; Ermoshin, F.E.; Yurmanov, E.V.; Korneev, A.E.; Grigorovich, S.M. (AO*



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**Organization of experiments on the zinc ions injection in the primary water coolant circuit of MIR loop-type reactor**

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*Izhutov, A.L.; Vladimirova, O.N.; Svistunov, V.A.; Dvojnishnikova, S.A.; Vasil'ev, V.I.; Demidovskaya, E.O. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Injection of aluminum-containing compounds in the primary coolant circuit as a means of improving the radiation situation at transport NPP**

**S54;S37**

*Moskvin, L.N.; Pykhteev, O.Yu.; Efimov, A.A.; Kostin, M.M. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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## **Corrosion monitoring of the stand-prototype of the third generation transport NPP**

**S37**

*Gusev, B.A.; Efimov, A.A.; Aleshin, A.M.; Moskvin, L.N.; Orlenkov, I.S. (FGUP «NITI im. A.P.*

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**Technological and methodological aspects of preparing the inner surfaces of the gas loop installation of the MIR research reactor**

**S22**

*Izhutov, A.L.; Svistunov, V.A.; Vasil'ev, V.I.; Vladimirova, O.N.; Dvojnishnikova, S.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Low-waste technology for decontamination of primary cooling system**

**S37;S38**

*Moskvin, L.N.; Efimov, A.A.; Krivobokov, V.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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## **Removal of corrosion products from the primary circuit during shutdown of a WWER reactor**

**S37;S38**

*Doil'nitsyn, V.A.; Mironov, K.N. (Sankt-Peterburgskij Gosudarstvennyj Tekhnologicheskij Inst. (Tekhnicheskij Univ.), Sankt-Peterburg (RU))*

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### **The behavior of hydrazine-hydrate in the primary circuit of a transport NPP S38**

*Orlov, S.N.; Zmitrodan, A.A.; Gusev, B.A.; Mysik, S.G.; Zakolodnyj, I.N.; Fomenkov, R.V.; Petukhov, A.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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RADIOLYSIS; PRIMARY COOLANT CIRCUITS; DECONTAMINATION

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### **Substantiation of quality requirements for the lead coolant of the BREST-OD-300 reactor**

**S21**

*Bazhanov, A.A.; Ivanov, A.D.; Yurmanov, V.A. (AO «NIKIEhT», Moscow (RU))*

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### **Rehabilitation of land and water resources contaminated with radioactive elements using a reclamation mixture of JSC «Hydrometallurgical Plant»**

**S54**

*Makhov, S.V. (OAO «Gidrometallurgicheskij Zavod», Lermontov, Stavropol'skij Kraj (RU))*

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**Job analysis of the Automated radiation monitoring system of FSUE «SRTI named after A.P. Aleksandrov» in conjunction with laboratory methods of radiation monitoring for a comprehensive assessment of the radiation situation S54**

*Pankina, E.B.; Glukhova, M.P.; Batrakov, S.V.; Pashchenko, S.V.; Kireev, V.F.; Chernomorova, N.V.; Ivanov, V.P. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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**About some promising processes of integrated radioactive waste management**  
**S12**

*Doil'nitsyn, V.A.; Petrov, A.I.; Akatov, A.A.; Samonin, V.V.; Fedorov, Yu.S. (Sankt-Peterburgskij Gosudarstvennyj Tekhnologicheskij Inst. (Tekhnicheskij Univ.), Sankt-Peterburg (RU))*

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(Atomehnergoanalitika—2017)

O nekotorykh perspektivnykh protsessakh kompleksnogo obrashcheniya s RAO

p. 154-157

(RU)

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DECONTAMINATION; SPENT FUELS; WASTE FORMS; SORPTION; WATER CHEMISTRY; BORIC ACID; BEST AVAILABLE TECHNOLOGY

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**Reactor gaseous emissions control**

**S54**

*Antushevskij, A.S.; Murashova, E.L.; Nikitenko, E.I. (FGUP «PO «Mayak», Ozersk (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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30 May - 1 Jun 2017

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Kontrol' gazoobraznykh vybrosov reaktornogo proizvodstva

p. 157-158

(RU)



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RARE GASES; ISOTOPE RATIO; EXHAUST GASES; RADIATION MONITORING;  
RADIOMETRIC ANALYSIS; TRAPPING; GAMMA SPECTROSCOPY

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### **Volumetric activity of tritium and carbon-14 in nuclear emissions**

**S54**

*Murashova, E.L.; Antushevskij, A.S. (FGUP «PO «Mayak», Ozersk (RU)); Ekidin, A.A.;*

*Kolyanovich, M.E. (Inst. Promyshlennoj Ehkologii UrO RAN, Ekaterinburg (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Vos'maya nauchno-tekhnicheskaya konferentsiya «Problemy i perspektivy razvitiya khimicheskogo i radiokhimicheskogo kontrolya v atomnoj ehnergetike»

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Ob'emnaya aktivnost' tritiya i ugleroda-14 v vybrosakh AEhS

p. 158-159

(RU)

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CONTAMINATION; CARBON 14; TRITIUM; VOLUMETRIC ANALYSIS; RADIOACTIVE EFFLUENTS; GASEOUS WASTES; BENCH-SCALE EXPERIMENTS

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### **Associated forms of tritium in natural ecosystems**

**S54**

*Bondarenko, L.G.; Dushin, V.N.; Shabalev, S.I. (AO «Radiyevyj Inst. im. V.G. Khlopina», Sankt-*

*Peterburg (RU)*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

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Svyazannye formy tritiya v prirodnykh ehkosistemakh

p. 159-162

(RU)

2 tabs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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211 p.

TRITIUM; AQUATIC ECOSYSTEMS; TERRESTRIAL ECOSYSTEMS;

ENVIRONMENTAL EFFECTS; RADIOACTIVITY; RADIONUCLIDE MIGRATION

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**Evaluation of the Automated radiation monitoring system lower and upper level in FSUE «SRTI named after A. P. Aleksandrov» during the operational monitoring of the radiation situation**

**S38**

*Pankina, E.B.; Borisova, K.G.; Pashchenko, S.V.; Glukhova, M.P. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Otsenka rabotosposobnosti sredstv nizhnego i verkhnego urovnya ASKRO FGUP «NITI im. A.P. Aleksandrova» pri provedenii operativnogo kontrolya radiatsionnoj obstanovki

p. 162-165

(RU)

3 figs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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ENVIRONMENTAL EFFECTS; RADIATION MONITORING; EFFICIENCY; GAMMA RADIATION; AIR POLLUTION MONITORING; AUTOMATION

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**Experimental study of the radionuclides ( $^{137}\text{Cs}$ ,  $^{90}\text{Sr}$ ,  $^{79}\text{Se}$ ,  $^{99}\text{Tc}$ ,  $^{152(154)}\text{Eu}$ ,  $^{239(240)}\text{Pu}$ ) sorption in fractured rocks and calculation of the sorption delay factor during their migration**

S38

*Rozov, K.B.; Rumynin, V.G.; Nikulenkov, A.M. (Inst. Geoehkologii RAN im. E.M. Sergeeva, Sankt-Peterburgskoe Otdelenie, Sankt-Peterburg (RU)); Pankina, E.B.; Glukhova, M.P.; Chernomorova, N.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Ehksperimental'noe izuchenie sorbtsii radionuklidov ( $^{137}\text{Cs}$ ,  $^{90}\text{Sr}$ ,  $^{79}\text{Se}$ ,  $^{99}\text{Tc}$ ,  $^{152(154)}\text{Eu}$ ,  $^{239(240)}\text{Pu}$ ) v treshchinovatykh porodakh i raschet faktora sorbtsionnoj zaderzhki pri ikh migratsii

p. 166-169

(RU)

1 fig.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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RADIONUCLIDE MIGRATION; ROCKS; ADSORPTION; DISTRIBUTION FUNCTIONS; ENVIRONMENTAL EFFECTS; GROUND WATER

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## **Chemisorption of Eu(3+) and Cm(3+) ions on calcite embryonic clusters as one of the aspects of radioactive ion migration in natural waters**

**S54**

*Bogachev, N.A.; Skripkin, M.Yu. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Heberling, F. (Karlsruhe Inst. of Technology, Inst. of Nuclear Waste Disposal, Karlsruhe (DE))*

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(Atomehnergoanalitika—2017)

Khemosorbtsiya ionov Eu(3+) i Cm(3+) na zarodyshevykh klasterakh kal'tsita kak odin iz aspektov migratsii radioaktivnykh ionov v prirodnykh vodakh

p. 169-170

(RU)

3 refs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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RADIONUCLIDE MIGRATION; CHEMISORPTION; CALCITE; CONTAMINATION; CURIUM COMPLEXES; EUROPIUM COMPLEXES; FLUORESCENCE SPECTROSCOPY

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## **Effect of equatorial ligands on the metal-oxoligand interaction in dioxocations**

**$AN^{VI}O_2^{2+}$  (AN = U, Np, Pu)**

**S38**

*Skripkin, M.Yu.; Bogachev, N.A.; Gorbunov, A.O. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Lindqvist-Reis, P.; Polly, R. (Karlsruhe Inst. of Technology, Inst. of Nuclear Waste Disposal, Karlsruhe (DE))*

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(Atomehnergoanalitika—2017)

Vliyanie ehkvatorianl'nykh ligandov na vzaimodejstvie metall-oksoolidov v dioksokationakh  $AN^{VI}O_2^{2+}$  (AN = U, Np, Pu)

p. 171-172

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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URANYL COMPLEXES; CHEMICAL BONDS; NEPTUNYL COMPLEXES; PLUTONYL COMPLEXES; BINDING ENERGY; AQUEOUS SOLUTIONS; MOLECULAR STRUCTURE

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## **Investigation of the processes of obtaining mineral-like matrices for the immobilization of Cs, Sr, Y, Ce, and Am radionuclides on model systems**

**S12**

*Orlova, V.A.; Galuzin, D.D.; Kozlov, P.V.; Remizov, M.B. (FGUP «PO «Mayak», Ozersk (RU))*

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(Atomehnergoanalitika—2017)

Issledovanie protsessov polucheniya mineralopodobnykh matrits dlya immobilizatsii radionuklidov Cs, Sr, Y, Ce i Am na model'nykh sistemakh

p. 173-176

(RU)

2 refs., 1 fig.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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SPENT FUELS; SOLIDIFICATION; MOLECULAR STRUCTURE; PHOSPHATASES;  
RADIOISOTOPES; RADIATION PROTECTION; PUREX PROCESS; SOLVENT  
EXTRACTION

---

**Using the hydrolytic properties of metal ions to remove cobalt radionuclides from solutions in the presence of complexing agents**

**S38**

*Toropova, V.V.; Radkevich, A.V. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob''edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij — Sosny» Natsional'noj Akademii Nauk Belarusi, Minsk (BY))*

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(Atomehnergoanalitika—2017)

Ispol'zovanie gidroliticheskikh svojstv metall-ionov dlya udaleniya radionuklidov kobal'ta iz rastvorov v prisutstvii kompleksobrazovatelej

p. 176-179

(RU)

2 figs., 1 tab.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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COBALT 60; LIQUID WASTES; IRON COMPLEXES; PH VALUE; DECONTAMINATION;  
MEMBRANE TRANSPORT

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**Experience in the creation and operation of membrane-sorption plants for water treatment and purification of LRW NPP**

**S12**

*Epimakhov, V.N.; Olejnik, M.S.; Prokhorkin, S.V.; Tkachenko, V.S.; Smirnov, V.D. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Opyt sozdaniya i ehkspluatatsii membranno-sorbtsionnykh ustanovok vodopodgotovki i ochistki ZhRO YaEhU  
p. 179-180  
(RU)  
Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)  
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211 p.  
WATER CHEMISTRY; SORPTION; MEMBRANE TRANSPORT; OSMOSIS;  
DECONTAMINATION; PURIFICATION; NUCLEAR INSTRUMENT MODULES; LIQUID WASTES

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**The experience of organizing and conducting facility-level monitoring of the subsurface state on the territory of FSUE «SRTI named after A. P. Aleksandrov» as part of a system of industry**

**S54**

*Pankina, E.B.; Glukhova, M.P.; Chernomorova, N.V.; Mikhajlova, M.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Opyt organizatsii i vedeniya ob"ektnogo monitoringa sostoyaniya nedr na territorii FGUP «NITI im. A.P. Aleksandrova» kak chasti sistemy otraslevogo naznacheniya

p. 180-183

(RU)

1 ref., 1 fig.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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RADIATION MONITORING; TERRESTRIAL ECOSYSTEMS; GROUND WATER;  
BOREHOLES; SOILS; SITE CHARACTERIZATION

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**Analysis of meteorological information on the territory of FSUE «SRTI named after A. P. Aleksandrov» to assess of effective doses to the population from the current operation of the enterprise**

**S54**

*Pankina, E.B.; Glukhova, M.P.; Borisova, K.G. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Analiz meteorologicheskoy informatsii na territorii FGUP «NITI im. A.P. Aleksandrova» dlya otsenki ehffektivnykh doz na naselenie ot tekushchej ehkspluatatsii predpriyatiya

p. 184-186

(RU)

1 fig., 2 tabs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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RADIATION MONITORING; METEOROLOGY; AUTOMATION; DOSE RATES;  
OPERATION; NUCLEAR FACILITIES; AIR POLLUTION MONITORING; EFFECTIVE  
RADIATION DOSES

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**Improving the technology of chemical washes of reverse osmosis modules for cleaning and concentrating liquid radioactive waste**

**S12**

*Epimakhov, V.N.; Prokhorkin, S.V.; Tkachenko, V.S.; Olejnik, M.S.; Smirnov, V.D.; Kozin, M.I.; Blinov, S.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Sovershenstvovanie tekhnologii khimicheskikh promyvok obratnoosmoticheskikh modulej ochistki i kontsentrirvaniya zhidkikh radioaktivnykh otkhodov

p. 187-188

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry» (Atomehnergoanalitika—2017).

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(Atomehnergoanalitika—2017). Tezisy dokladov

INIS-RU--617

Sankt-Peterburg (RU)

Izd-vo VVM

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211 p.

RADIOACTIVE WASTES; WASHING; DECONTAMINATION; LIQUID WASTES;

OSMOSIS; CITRIC ACID; CORROSION PRODUCTS; BEST AVAILABLE TECHNOLOGY

**Filter-container for cleaning LRW from cesium radionuclides**

**S12**

*Epimakhov, V.N.; Aleshina, N.I.; Olejnik, M.S.; Prokhorkin, S.V.; Tkachenko, V.S. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

**Eighth scientific and technical conference «Problems and prospects of development of chemical and radiochemical control in the nuclear power industry»**

**(Atomehnergoanalitika—2017)**

Sosnovyj Bor (RU)

30 May - 1 Jun 2017

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(Atomehnergoanalitika—2017)

Fil'tr-kontejner dlya ochistki ZhRO ot radionuklidov tseziya

p. 188-189

(RU)

1 tab.

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211 p.

LIQUID WASTES; CESIUM 137; FILTERS; CONTAINERS; DECONTAMINATION;  
CONCRETES; RADIATION PROTECTION

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## **The use of industrial wastes - sludge-tailings of amphibole asbestos wet recovery in the conditioning of radioactive wastes**

**S12**

*Olejnik, M.S.; Epimakhov, V.N.; Pankina, E.B.; Glukhova, M.P. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Ispol'zovanie promyshlennykh otkhodov — shlam-khvostov mokrogo obogashcheniya amfibol-asbestov pri konditsionirovanii radioaktivnykh otkhodov

p. 190-191

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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211 p.

RADIOACTIVE WASTES; RADIOACTIVE WASTE DISPOSAL; SLURRIES; TAILINGS;  
REMEDIAL ACTION; CESIUM 137; SOLIDIFICATION; AMPHIBOLE; ASBESTOS

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## **Selective sorbents for the extraction of cesium radionuclides from medium-level liquid wastes**

**S12**

*Epimakhov, V.N.; Olejnik, M.S.; Aleshina, N.I.; Smirnova, G.A. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Selektivnye sorbenty dlya izvlecheniya radionuklidov tseziya iz sredneaktivnykh zhidkikh otkhodov

p. 191

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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Izd-vo VVM

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211 p.

FERRICYANIDES; GRANULAR MATERIALS; SILICA GEL; ION EXCHANGE MATERIALS; CESIUM ISOTOPES; ISOTOPE SEPARATION; LIQUID WASTES; INTERMEDIATE-LEVEL RADIOACTIVE WASTES

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**Development of high-gradient magnetic filters for cleaning process media of NPU**

**S12**

*Gusev, B.A.; Moskvina, L.N. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Razrabotka vysokogradientnykh magnitnykh fil'trov dlya ochistki tekhnologicheskikh sred YaEhU

p. 208

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Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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2017

211 p.

CORROSION PRODUCTS; MAGNETIC FILTERS; FILTRATION; WATER CHEMISTRY;  
NUCLEAR POWER PLANTS; COMPUTERIZED SIMULATION; WASTE FORMS

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## **Decontaminated and fireproof paint coatings for nuclear power plants**

**S22**

*Fenogenov, V.A.; Prokopenko, V.A.; Epimakhov, V.N.; Smirnova, G.A.; Nikolaev, A.I. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU); AO «SKhM», Sosnovyj Bor (RU))*

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(Atomehnergoanalitika—2017)

Dezaktiviruemye i pozharobezopasnye lakokrasochnye pokrytiya dlya AEhS

p. 209-210

(RU)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Federal'naya Yadernaya Organizatsiya FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)

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211 p.

DECONTAMINATION; PROTECTIVE COATINGS; RADIATION PROTECTION;  
SURFACE CONTAMINATION; FIRE PREVENTION; PAINTS; SAFETY

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## **V International scientific conference of young scientists, postgraduates and students «Isotopes: technologies, materials and applications». Book of abstracts**

**S07**

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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V Mezhdunarodnaya nauchnaya konferentsiya molodykh uchenykh, aspirantov i studentov

«Izotopy: tekhnologii, materialy i primeneniye»

V Mezhdunarodnaya nauchnaya konferentsiya molodykh uchenykh, aspirantov i studentov

«Izotopy: tekhnologii, materialy i primeneniye». Sbornik tezisov dokladov

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Tomsk (RU)

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2018

122 p.

(RU, EN)

LEADING ABSTRACT; MEETINGS; ISOTOPES; LASER ISOTOPE SEPARATION;  
RADIOISOTOPES; NUCLEAR MEDICINE

The collection contains abstracts of papers that participated in the conference devoted to the generalization of research and development experience in the field of isotope production technologies, the use of compounds of a given isotopic composition in various sectors of the economy, as well as technologies for the utilization and storage of isotope production wastes

Сборник содержит материалы тезисов докладов, представленных на конференции, посвященной обобщению опыта исследований и разработок в области технологий получения изотопов, использования соединений заданного изотопного состава в различных отраслях народного хозяйства, а также технологий утилизации и хранения отходов изотопных производств

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## **Prospects for the use of lasers in technologies for producing isotopes of biomedical purposes**

**S07**

*Kazaryan, M.A. (Fizicheskij Inst. imeni P.N. Lebedeva RAN, Moscow (RU)), E-mail: kazar@sci.lebedev.ru*

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Perspektivy ispol'zovaniya lazerov v tekhnologiyakh polucheniya izotopov mediko-biologicheskogo naznacheniya

p. 8

(RU)

1 ref.

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122 p.

ISOTOPES; ISOTOPE PRODUCTION; RADIOISOTOPES; LASER ISOTOPE SEPARATION; NUCLEAR MEDICINE; RADIOLOGY

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## **Elemental and isotopic enrichment of solutions in solving environmental safety problems**

**S07**

*Li Hongda (Shenyang Ligong Univ., Shehn'yan (CN)), E-mail: 308544490@qq.com*

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**«Isotopes: technologies, materials and applications»**

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«Izotopy: tekhnologii, materialy i primeneniye»

Ehlementnoe i izotopnoe obogashchenie rastvorov v reshenii zadach ehkologicheskoy bezopasnosti

p. 9

(RU)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.

ISOTOPES; RADIOISOTOPES; NUCLEAR MEDICINE; ECOLOGY; BIOLOGICAL RADIATION EFFECTS; SOLVENTS

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## **Current trends of isotopic modification of the structure and properties of materials**

**S07**

*Uglov, V.V. (Belorusskij Gosudarstvennyj Univ., Minsk (BY)), E-mail: Uglov@bsu.by*

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Sovremennyye tendentsii izotopnogo modifitsirovaniya struktury i svoystv materialov

p. 10

(RU)

4 refs.



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INIS-RU--618  
Tomsk (RU)  
Izd-vo Grafika  
2018  
122 p.  
RADIOISOTOPES; ISOTOPE PRODUCTION; ISOTOPE RATIO; MAGNETIC MATERIALS; SILICON; QUANTUM COMPUTERS

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**Radioisotope production in low enriched uranium research nuclear reactors  
S07;S21**

*Kenzhin, E.A. (Inst. Yadernoj Fiziki Respubliki Kazakhstan, Almaty (KZ)), E-mail: kenzhin61@mail.ru*

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Narabotka radioizotopov v issledovatel'skikh yadernykh reaktorakh s nizkoobogashchennym uranom

p. 11

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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122 p.

RADIOISOTOPES; ISOTOPE PRODUCTION; NUCLEAR MEDICINE; RESEARCH REACTORS; FISSION PRODUCTS; SLIGHTLY ENRICHED URANIUM

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**Isotope analysis and radiation characteristics of the corium  
S21**

*Vurim, A.D. (Inst. Atomnoj Ehnergii, Kurchatov (KZ)), E-mail: Vurim@nnc.kz*

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Izotopnyj analiz i radiatsionnye kharakteristiki koriuma

p. 12

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2 refs.

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122 p.

RADIOISOTOPES; CORIUM; REACTOR SAFETY; FAST REACTORS; IGR REACTOR;  
MASS SPECTROSCOPY

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## **Uranium industry in the Republic of Kazakhstan: state and development prospects**

**S11**

*Dujsebaev, B.O. (AO «NAK KAZATOMPROM», Astana (KZ)), E-mail: ines@inesnet.ru*

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Uranovaya promyshlennost' v Respublike Kazakhstan: sostoyanie i perspektivy razvitiya

p. 13

(RU)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

NATURAL URANIUM; MINERAL RESOURCES; URANIUM DEPOSITS; ECONOMICS;  
MARKETING; KAZAKHSTAN

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## **Changing the external flows of the separation cascade to reduce the duration of the transition process**

**S07**

*Ushakov, A.A.; Sovach, V.P.; Orlov, A.A. (AO «PO «Ehlektrokhimicheskij Zavod», Zelenogorsk (RU)), E-mail: ushakovaa2015@sibmail.com*

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Izmeneniye vneshnikh potokov razdelitel'nogo kaskada dlya sokrashcheniya prodolzhitel'nosti perekhodnogo protsessa

p. 23

(RU)

1 ref.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdeniye Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ.», Tomsk (RU)

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122 p.

ISOTOPES; ISOTOPE RATIO; ISOTOPE SEPARATION; GAS CENTRIFUGES; SIMULATION; HYDRAULICS

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## **Simulation of the processing of irradiated graphite containing fission and activation products by inert gas stream**

**S12**

*Bespala, E.V.; Chubreev, D.O.; Bespala, Yu.R. (FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU)), E-mail: bespala\_evgeny@mail.ru*

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Modelirovaniye protsessa obrabotki obluchennogo grafita, sodержashchego produkty deleniya i aktivatsii, inertnym gazovym potokom

p. 24

(RU)

2 refs.

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Tomsk (RU)  
Izd-vo Grafika  
2018  
122 p.  
RADIOACTIVE WASTES; FISSION PRODUCTS; SPENT FUEL ELEMENTS; GRAPHITE; WIGNER EFFECT; COMPUTERIZED SIMULATION

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### **Modern application of isotope products**

**S07**

*Skorynin, G.M.; Orlov, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: ckorynin@gmail.com*

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Sovremennye oblasti primeneniya izotopnoj produkcii

p. 25

(RU, EN)

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ISOTOPES; STABLE ISOTOPES; RADIOISOTOPES; ISOTOPE PRODUCTION; ISOTOPE APPLICATIONS; NUCLEAR MEDICINE

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### **Analysis of the security of regenerated uranium fuel in light-water reactors from the point of view of the implementation of the IAEA safeguards**

**S21**

*Gusev, V.E.; Volkov, Yu.N.; Smirnov, A.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: gusevvlad13@mail.ru; Nevinitsa, V.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU))*

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Analiz zashchishchennosti regenerirovannogo uranovogo topliva legkovodnykh reaktorov s  
tochki zreniya osushchestvleniya garantij MAGATEh

p. 26

(RU)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
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NUCLEAR POWER; WATER COOLED REACTORS; REACTOR SAFETY; NUCLEAR  
FUELS; SLIGHTLY ENRICHED URANIUM; IAEA SAFEGUARDS

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## **A technique of enrichment of regenerated uranium with different initial content of even isotopes**

**S07**

*Smirnov, A.Yu.; Gusev, V.E.; Sulaberidze, G.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ.  
«MIFI», Moscow (RU)), E-mail: a.y.smirnoff@rambler.ru; Nevinitsa, V.A. (Natsional'nyj  
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Sposob obogashcheniya regenerirovannogo urana s razlichnym iskhodnym sodержaniem  
chetnykh izotopov

p. 27

(RU)

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122 p.

**The heat exchanger design optimization for a direct flow irradiated beryllium purification plant**

**S07;S21**

*Vurim, A.D.; Kotov, V.M.; Baklanova, Yu.Yu.; Surayev, A.S. (Branch «Inst. of Atomic Energy» RSE NNC RK, Moscow (RU)); Suleimenov, N.A. (EKSTU named after D. Serikbayev, Ust-Kamenogorsk (RU)), E-mail: sna@mail.ru*

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(EN)

5 refs.

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122 p.

NUCLEAR POWER; HEAT EXCHANGERS; SPENT FUEL ELEMENTS; PURIFICATION; RADIOISOTOPES; BERYLLIUM

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**The dynamics of filling containers of various geometries with vertical finning with desublimated UF<sub>6</sub>**

**S97**

*Leont'eva, D.A.; Malyugin, R.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: malyugin@tpu.ru*

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Dinamika zapolneniya emkostej razlichnoj geometrii s vertikal'nym orebreniem desublimirovannym UF<sub>6</sub>

p. 29

(RU)

1 ref., 2 figs.



Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)  
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122 p.  
NUCLEAR POWER; CONTAINERS; TRANSPORTATION SYSTEMS; URANIUM FLUORIDES; MATHEMATICAL MODELS; MATHEMATICS

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### **The impact of heat and mass transfer on the dynamics of filling containers with smooth inner walls with desublimated UF<sub>6</sub>**

**S97**

*Kotel'nikova, A.A.; Malyugin, R.V. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: malyugin@tpu.ru*

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Vliyanie rezhima teplo- i massoobmena na dinamiku zapolneniya emkostej s gladkimi vnutrennimi stenkami desublimirovannym UF<sub>6</sub>

p. 30

(RU)

1 ref., 1 fig.

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122 p.

NUCLEAR POWER; CONTAINERS; TRANSPORTATION SYSTEMS; URANIUM FLUORIDES; MATHEMATICAL MODELS; MATHEMATICS

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### **Target functions for optimizing separation stages**

**S07**

*Mustafin, A.R.; Smirnov, A.Yu.; Sulaberidze, G.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: a.y.smirnoff@rambler.ru*



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Tselevye funktsii pri optimizatsii razdelitel'nykh kaskadov

p. 31

(RU)

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122 p.

ISOTOPES; ISOTOPE SEPARATION; SEPARATION EQUIPMENT; EXTRACTION  
COLUMNS; GAS CENTRIFUGES; COMPUTER CALCULATIONS

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**Development of an automatic control system for  $\alpha$ -active radionuclides on the surface**

**S07**

*Khorokhorin, D.M.; Ereemeev, R.S. (FYaO FGUP «Gorno-Khimicheskij Kombinat»,*

*Zheleznogorsk (RU)); Balachkov, M.M. (Tomskij Politekhnicheskij Univ., Tomsk (RU)), E-mail:*

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Razrabotka sistemy avtomaticheskogo kontrolya  $\alpha$ -aktivnykh radionuklidov na poverkhnosti

p. 32

(RU)

1 fig., 1 tab.

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122 p.

ISOTOPES; RADIOISOTOPES; RADIATION MONITORING; BETA PARTICLES; ALPHA PARTICLES; PLUTONIUM 239; AMERICIUM 241; STRONTIUM 90

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## **Low-temperature tank cooling for desublimation of gas mixture components**

**S07**

*Kartavykh, A.A.; Krajnov, A.Yu. (Tomskij Gosudarstvennyj Univ., Tomsk (RU)), E-mail: akrainov@ftf.tsu.ru*

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Nizkoterturnoe okhlazhdenie emkostej dlya desublimatsii komponentov gazovoj smesi

p. 33

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

ISOTOPES; RADIOISOTOPES; ISOTOPE SEPARATION; ISOTOPE SEPARATION PLANTS; OXYGEN ISOTOPES; COOLING SYSTEMS

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## **Radwastes immobilization in clay matrices**

**S12**

*Grigor'ev, A.S. (FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU); Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: atomlink@mcc.krasnoyarsk.su; Chubreev, D.O. (FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU))*

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Immobilizatsiya RAO v matritsakh iz glinistykh materialov

p. 35

(RU)

5 refs., 1 fig.

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122 p.  
RADIOACTIVE WASTE MANAGEMENT; SPENT FUEL ELEMENTS; MATRICES; CLAYS; SOLIDIFICATION; VITRIFICATION

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### **Features of the combustion process of a high-frequency flare discharge in reducing environments**

**S70**

*Myusova, A.E.; Lutsenko, Yu.Yu. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: luts@mail.ru*

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Osobennosti protsessa goreniya vysokochastotnogo fakel'nogo razryada v vosstanovitel'nykh sredakh

p. 36

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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122 p.

PLASMA CHEMISTRY; EDGE LOCALIZED MODES; COMBUSTION; ELECTRIC DISCHARGES; MAGNETIC FIELDS; METHANE; OXYGEN

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### **Synthesis of carbon nanotubes by electric discharge plasma**

**S70**

*Vassilyeva, Yu.Z. (Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: yzv1@tpu.ru*

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(EN)

7 refs., 1 fig.

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122 p.

PLASMA CHEMISTRY; CARBON NANOTUBES; EDGE LOCALIZED MODES;  
ELECTRIC DISCHARGES; TUNGSTEN; DIFFRACTION

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**Photochemical processes in a magnetic field during the photolysis of liquid acetone**

**S37**

*Lukin, A.V.; Leont'eva, D.A.; Ereemeev, R.S. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: gos100@tpu.ru*

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Fotokhimičeskie protsessy, protekayushchie v magnitnom pole, pri fotolize zhidkogo atsetona  
p. 38

(RU)

9 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

## **The formation and growth of dispersed particles in plasma being in a magnetic field**

**S70**

*Gamov, D.L. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: gdl@tpu.ru; Grigor'ev, A.S.; Khorokhorin, D.M. (Tomskij Politehnicheskij Univ., Tomsk (RU); FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU))*

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Formirovaniye i rost dispersnykh chastits v plazme, nakhodyashcheysya v magnitnom pole p. 39

(RU)

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PLASMA; MAGNETIC FIELDS; DISPERSIONS; CHEMICAL REACTIONS; CARBON DIOXIDE; IRON OXIDES

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## **The formation of nanoparticles in a magnetic field**

**S72**

*Gamov, D.L.; Leont'eva, D.A.; Ereemeev, R.S. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: dal16@tpu.ru*

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Formirovaniye nanochastits v magnitnom pole

p. 40

(RU)

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122 p.  
PHYSICS; NANOPARTICLES; MAGNETIC FIELDS; PLASTICITY; SPIN;  
FLUCTUATIONS

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### **Laser diagnostics of dispersed particles forming in a constant magnetic field**

**S71**

*Miklashevich, L.A.; Gamov, D.L. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Khorokhorin, D.M. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU)), E-mail: nt.centre@mail.ru*

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Lazernaya diagnostika dispersnykh chastits, formiruyushchikhsya v postoyannom magnitnom pole

p. 41

(RU)

1 fig.

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122 p.

PHYSICS; MAGNETIC FIELDS; PLASMA; MICHELSON INTERFEROMETER;  
THERMAL DIFFUSION; PHASE TRANSFORMATIONS

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### **The structure of films sprayed in a magnetic field by magnetron sputtering**

**S75**

*Zaguzin, I.Yu.; Lyutikov, O.N. (NI Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: iyz4@tpu.ru*

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Struktura plenok, napylyaemykh v magnitnom pole putem magnetronnogo raspyleniya  
p. 42

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

EDGE LOCALIZED MODES; MAGNETIC FIELDS; THIN FILMS; MAGNETRONS;  
SEMICONDUCTOR MATERIALS; SPUTTERING

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## **Separation of chemical elements using electrochemical processes on asymmetric alternating current under resonant interactions**

**S37**

*Li Hongda (Shenyang Ligong Univ., Shehn'yan (CN)); Sosnovskij, S.A. (Sibirskij Fiziko-Tekhnicheskiy Inst. Tomskogo Gosudarstvennogo Univ., Tomsk (RU)); Abdiyaynov, A.E. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: timsn@tpu.ru*

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Razdelenie khimicheskikh ehlementov s ispol'zovaniem ehlektrokhimicheskikh protsessov na  
asimmetrichnom peremennom toke v usloviyakh rezonansnykh vzaimodejstvij

p. 43

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.



ELECTROCHEMISTRY; RESONANCE SCATTERING; SEPARATION PROCESSES;  
CHARGED-PARTICLE PRECIPITATION; JOSEPHSON EFFECT; TRANSITION  
ELEMENTS

---

### **Determination of the composition of substances by physicochemical analysis methods**

**S36**

*Karelin, V.A.; Azanov, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: vakarelin@tpu.ru, azanovseversk@gmail.com*

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Opreделение sostava veshchestv fiziko-khimicheskimi metodami analiza

p. 44

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.

MATERIALS; CHEMICAL COMPOSITION; CHEMICAL ANALYSIS; SINTERING;  
MOLTEN SALTS; POWDERS

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### **Radiation characteristics of fuel of the IV generation nuclear innovation system**

**S38**

*Bedenko, S.V.; Knyshev, V.V. (School of Nuclear Science and Engineering, Div. for Nuclear-Fuel Cycle National Research Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: bedenko@tpu; Ghal-Eh, N. (School of Physics, Damghan Univ., Damghan (IR); Dept. of Physics, School of Sciences, Ferdowsi Univ. of Mashhad, Mashhad (IR))*

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p. 46

(EN)

4 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)  
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Tomsk (RU)  
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122 p.  
RADIATION CHEMISTRY; NEUTRON PHYSICS; SPENT FUELS; FUEL CYCLE; IRRADIATION; MATRIX MATERIALS

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### **The evolution of the elemental composition of fuel in a long operation cycle of a fuel assembly with a helium coolant at different initial ratio of thorium and plutonium**

**S21**

*Arzhannikov, A.V. (Inst. Yadernoj Fiziki imeni G.I. Budkera SO RAN, Novosibirsk (RU)); Shamanin, I.V.; Knyshev, V.V. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: vvk28@tpu.ru*

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Ehvoljutsiya ehlementnogo sostava topliva v dlitel'nom rabochem tsikle teplovydelyayushchej sborki s gelievym teplonositelem pri razlichnom iskhodnom sootnoshenii toriya i plutoniya  
p. 47

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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122 p.

NUCLEAR POWER; HELIUM COOLED REACTORS; NUCLEAR FUELS; FUEL ASSEMBLIES; PLASMA; THORIUM; PLUTONIUM

---

### **Plasma technology as an alternative to traditional spent nuclear fuel**

## reprocessing methods

S12

*Kuzero, V.B. (AO Atomtekhnenergo, Mytishchi (RU)); Novoselov, I.Yu. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: inf24ity@gmail.com*

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Plazmennaya tekhnologiya kak al'ternativa traditsionnym metodam pererabotki otrabotavshego yadernogo topliva

p. 48

(RU)

1 ref.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

NUCLEAR FUELS; SPENT FUEL ELEMENTS; SPENT FUEL STORAGE; MIXED OXIDE FUELS; RADIOACTIVE WASTE PROCESSING; DRY STORAGE

---

## Simulation of the HPGE-detector using Monte Carlo methods

S97

*Sabitova, R.R.; Bedenko, S.V.; Zor'kin, A.I. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: radmila1@tpu.ru*

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Modelirovanie HPGE-detektora metodami Monte-Karlo

p. 49

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; MONTE CARLO METHOD; COMPUTER CODES; GAMMA DETECTION; GAMMA RADIATION

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## **Evaluation of the effectiveness of ceramic dispersion fuel in a generation reactor during long-term operation**

**S21**

*Zor'kin, A.I.; Kuznetsova, M.E.; Ukrainets, O.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: aiz4@tpu.ru*

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Otsenka ehffektivnosti keramicheskogo dispersionnogo topliva v reaktornoj ustanovke pokoleniya pri dlitel'noj ehkspluatatsii

p. 50

(RU)

6 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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122 p.

NUCLEAR FACILITIES; NUCLEAR FUELS; THORIUM; PLUTONIUM; REACTOR OPERATION; MIXED OXIDE FUELS

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## **Temperature characteristics of a high-frequency flare discharge burning in a mixture of atomic and molecular gas**

**S70**

*Myusova, A.E.; Lutsenko, Yu.Yu. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: luts@mail.ru*

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Temperaturnye kharakteristiki vysokochastotnogo fakel'nogo razryada, goryashchego v smesi atomarnogo i molekulyarnogo gaza

p. 51

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.

EDGE LOCALIZED MODES; PLASMA; HIGH-FREQUENCY DISCHARGES; HYDROXY COMPOUNDS; ELECTRON TEMPERATURE; ARGON

---

## **Determination of the characteristics of the flare discharge used in plasma processing of substances**

**S70**

*Myusova, A.E.; Lutsenko, Yu.Yu. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: luts@mail.ru*

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Opređenje kharakteristik fakel'nogo razryada, ispol'zuemogo v protsessakh plazmennoj pererabotki veshchestv

p. 52

(RU)

2 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

EDGE LOCALIZED MODES; PLASMA; HIGH-FREQUENCY DISCHARGES; HYDROXY COMPOUNDS; ELECTRON TEMPERATURE; HYDROGEN

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## **Simulating the process of plasma-chemical synthesis of oxide compositions «UO<sub>2</sub>-BeO» from aqueous-organic nitrate solutions**

**S21**

*Zubov, V.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: kaberne1812@yandex.ru*

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Modelirovaniye protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsiy «UO<sub>2</sub>-BeO» iz vodno-organicheskikh nitratnykh rastvorov

p. 53

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

NUCLEAR POWER; NUCLEAR FUELS; URANIUM OXIDES; NITRATES; URANIUM DIOXIDE; RESONANCE ABSORPTION

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## **Study of oxide powders of rare and scattered elements synthesized in high-frequency flare discharge air plasma**

**S36**

*Golovkov, N.I.; Alyukov, E.S. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: golniigo@gmail.com*

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Issledovaniye poroshkov oksidov redkikh i rasseyannykh ehlementov, sintezirovannykh v usloviyakh vozdushnoj plazmy vysokochastotnogo fakel'nogo razryada

p. 54

(RU)

1 ref.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdeniye Vysshego Obrazovaniya

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122 p.  
MATERIALS; POWDERS; CHEMICAL COMPOSITION; CHEMICAL ANALYSIS; YTTRIUM OXIDES; RARE EARTHS

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### **Simulation of synthesis of complex oxide compositions in low-temperature plasma for promising types of nuclear fuel**

**S36**

*Alyukov, E.S.; Novoselov, I.Yu. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: john.judo@mail.ru*

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Modelirovanie sinteza v nizektemperaturnoj plazme slozhnykh oksidnykh kompozitsij dlya perspektivnykh tipov yadernogo topliva

p. 55

(RU)

1 ref.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.

CHEMICAL COMPOSITION; SYNTHANE PROCESS; PLASMA CHEMISTRY; POWDERS; NUCLEAR FUELS; MIXED OXIDE FUELS

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### **Simulating the behavior of non-metallic refractory oxides in a thermal plasma stream**

**S36**

*Shekhovtsov, V.V. (Tomskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ., Tomsk (RU)), E-mail: shehovcov2010@yandex.ru*



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Modelirovanie povedeniya nemetallicheskih tugoplavkikh oksidov v potoke termicheskoy  
plazmy

p. 56

(RU)

4 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

MATERIALS; OXIDES; REFRACTORIES; PLASMA; MELTING; HEATING

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**Plasma-arc technology for producing nanopowders**

**S12**

*Kosmachev, P.V. (Tomskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ., Tomsk (RU);  
Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: kosmachev@tsuab.ru*

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Plazmenno-dugovaya tekhnologiya polucheniya nanoporoshkov

p. 57

(RU)

4 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

**Investigation of the process of ore blocking-out under the impact of a high-voltage spark pulse discharge**

**S11**

*Sosnovskij, S.A. (Sibirskij Fiziko-Tekhnicheskij Inst. Tomskogo Gosudarstvennogo Univ., Tomsk (RU)), E-mail: ssa777@mail.ru; Tyurin, S.V. (OOO NPK «Avior», Tomsk (RU)); Golovkov, N.I. (Tomskij Politehnicheskij Univ., Tomsk (RU))*

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Issledovanie protsessa vskrytiya rud pri vozdejstvii vysokovol'nogo iskrovogo impul'snogo razryada

p. 58

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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Tomsk (RU)

Izd-vo Grafika

2018

122 p.

METALS; EXTRACTION; RARE EARTHS; HYDROMETALLURGY; LEACHING;  
THERMODYNAMICS

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**Plasma-chemical synthesis of oxide compositions «UO<sub>2</sub>-MgO» for dispersed nuclear fuel**

**S21**

*Babaev, R.G. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: bobontuber@inbox.ru*

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Plazmokhimicheskij sintez oksidnykh kompozitsij «UO<sub>2</sub>-MgO» dlya dispersionnogo yadernogo topliva

p. 59

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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2018

122 p.

NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; URANIUM 235; URANIUM OXIDES; URANIUM DIOXIDE; SYNTHESIS

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### **Simulating the kinetics of the plasma-chemical process synthesis of complex oxide compositions for dispersion nuclear fuel from dispersed aqueous-organic nitrate solutions**

**S21**

*Karengin, A.A. (AO «Sibirskij Khimicheskij Kombinat», Seversk (RU)), E-mail:*

*karenginaa@tpu.ru; Karengin, A.G. (Tomskij Politekhničeskij Univ., Tomsk (RU))*

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Modelirovanie kinetiki protsessa plazmokhimicheskogo sinteza slozhnykh oksidnykh kompozitsij dlya dispersionnogo yadernogo topliva iz dispergirovannykh vodno-organicheskikh nitratnykh rastvorov

p. 60

(RU)

3 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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122 p.

NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES; URANIUM OXIDES; SYNTHESIS; URANIUM

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## **Reconversion of depleted uranium hexafluoride to dioxide in air-methane plasma** **S21**

*Tundeshev, N.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: tundeshev93@mail.ru*

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Rekonversiya obednennogo geksaforida urana do dioksida v vozdushno-metanovoj plazme  
p. 61

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

FUEL CYCLE; URANIUM 235; DEPLETED URANIUM; URANIUM DIOXIDE; URANIUM  
HEXAFLUORIDE; GAS CENTRIFUGATION

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## **Simulating the process of plasma-chemical synthesis of oxide compositions** **«PuO<sub>2</sub>-ThO<sub>2</sub>-BeO»**

**S21**

*Ivanov, K.S.; Novoselov, I.Yu. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail:  
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Modelirovanie protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsij «PuO<sub>2</sub>-ThO<sub>2</sub>-  
BeO»

p. 62

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
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2018

122 p.

FAST REACTORS; NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES;  
URANIUM OXIDES; SYNTHESIS

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## **Simulating the process of plasma-chemical synthesis of oxide compositions**

**«PuO<sub>2</sub>-ThO<sub>2</sub>-MgO»**

**S21**

*Tikhonov, A.E.; Babaev, R.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail:  
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Modelirovanie protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsij «PuO<sub>2</sub>-ThO<sub>2</sub>-  
MgO»

p. 63

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
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122 p.

FAST REACTORS; NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES;  
MAGNESIUM; SYNTHESIS

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## **Simulating the process of plasma-chemical synthesis of oxide compositions**

**«PuO<sub>2</sub>-UO<sub>2</sub>-BeO»**

**S21**

*Golovkov, N.I.; Alyukov, E.S. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail:  
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Modelirovanie protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsij «PuO<sub>2</sub>-UO<sub>2</sub>-  
BeO»

p. 64

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

FAST REACTORS; NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES;  
PLUTONIUM OXIDES; SYNTHESIS

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## **Plasma-chemical synthesis of oxide compositions from waste after underground sources water preparation**

**S12**

*Kajdarov, A.E.; Karengin, A.A. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail:  
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«Izotopy: tekhnologii, materialy i primeneniye»

Plazmokhimičeskij sintez oksidnykh kompozitsij iz otkhodov posle podgotovki vody iz  
podzemnykh istochnikov

p. 65

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

**Plasma immobilization of sludge sediments of liquid radwaste storage pools**  
**S12**

*Shestakova, L.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail:  
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Plazmennaya immobilizatsiya ilovykh otlozhenij bassejnov-khranilishch ZhRO

p. 66

(RU)

3 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
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122 p.

RADIOACTIVE WASTE DISPOSAL; LIQUID WASTES; SETTLING PONDS;  
SEDIMENTATION; SOLIDIFICATION; VITRIFICATION

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**Plasma-chemical synthesis of complex oxide compositions «UO<sub>2</sub>-ThO<sub>2</sub>-MgO»**  
**S21**

*Zotov, E.A.; Karengin, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail:  
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Plazmokhimicheskij sintez slozhnykh oksidnykh kompozitsij «UO<sub>2</sub>-ThO<sub>2</sub>-MgO»

p. 67

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
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2018  
122 p.  
FAST REACTORS; NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES;  
MAGNESIUM; SYNTHESIS

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**Simulation and optimization of the process of plasma-chemical synthesis of oxide compositions «UO<sub>2</sub>-ThO<sub>2</sub>-BeO» from aqueous-organic nitrate solutions**  
S21

*Kurkin, P.A.; Karengin, A.A. (Tomskij Politekhicheskiy Univ., Tomsk (RU)), E-mail: pak21@tpu.ru*

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Modelirovanie i optimizatsiya protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsij  
«UO<sub>2</sub>-ThO<sub>2</sub>-BeO» iz vodno-organicheskikh nitratnykh rastvorov

p. 68  
(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

NUCLEAR POWER; NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; OXIDES;  
URANIUM OXIDES; SYNTHESIS

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**Simulating the process of plasma-chemical synthesis of oxide compositions  
«PuO<sub>2</sub>-UO<sub>2</sub>-MgO»**

S21

*Rastorguev, V.I.; Poberezhnikov, A.D. (Tomskij Politekhicheskiy Univ., Tomsk (RU)), E-mail: vir12@tpu.ru*

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Modelirovanie protsessa plazmokhimicheskogo sinteza oksidnykh kompozitsij «PuO<sub>2</sub>-UO<sub>2</sub>-MgO»

p. 69

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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122 p.

NUCLEAR FUELS; DISPERSION NUCLEAR FUELS; URANIUM OXIDES; PLUTONIUM; MAGNESIUM; SYNTHESIS

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## **Reactor model for plasma processing of dispersed aqueous-organic nitrate solutions**

**S21**

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Model' reaktora dlya plazmennoj pererabotki dispergirovannykh vodno-organicheskikh nitratnykh rastvorov

p. 70

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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2018

122 p.

NUCLEAR FACILITIES; FAST REACTORS; DISPERSION NUCLEAR FUELS; URANIUM OXIDES; HEAT TRANSFER; SYNTHESIS

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**Plasma module based on HF-plasmatron for plasma-chemical synthesis of complex oxide compositions**

**S21**

*Andreev, D.V.; Zubov, V.V.; Karengin, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: dva17@tpu.ru*

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Plazmennyy modul' na baze VChF-plazmotrona dlya plazmokhimicheskogo sinteza slozhnykh oksidnykh kompozitsij

p. 71

(RU)

1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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122 p.

FAST REACTORS; DISPERSION NUCLEAR FUELS; URANIUM OXIDES; HEAT TRANSFER; SYNTHESIS; PLASMATRONS

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**Study of plasma processing of platinoid reextracts from spent nuclear fuel**

**S12;S36**

*Li, V.I.; Sagalakova, K.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: suzuno@list.ru*

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Issledovanie protsessa plazmennoj pererabotki reekstraktov platinoidov iz OYaT

p. 72

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)  
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122 p.  
NUCLEAR POWER; RADIOACTIVE WASTES; SPENT FUELS; RHODIUM 100; PALLADIUM; RUBIDIUM

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### **On the possibility of using the electroosmotic effect to restore safety barriers at the disposal site for radioactive waste**

**S21**

*Leonov, A.V.; Chubreev, D.O.; Bepala, E.V.; Bepala, Yu.R. (FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU)), E-mail: bepala\_evgeny@mail.ru*

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O vozmozhnosti ispol'zovaniya ehlektroosmoticheskogo ehffekta dlya vosstanovleniya bar'erov bezopasnosti v punkte zakhoroneniya radioaktivnykh otkhodov

p. 74

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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2018

122 p.

REACTORS; LWGR TYPE REACTORS; REACTOR SAFETY; SPENT FUELS; RADIOACTIVE WASTE DISPOSAL; RADIOACTIVE WASTE PROCESSING

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### **Optimization of the Co-60 production process at IRT-T reactor**

**S07**

*Kolesnikov, E.V. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail:*

*kolesnikov\_yevgeniy@mail.ru*

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Optimizatsiya protsessa narabotki Co-60 na IRT-T

p. 75

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

NUCLEAR FACILITIES; IRT REACTOR; ISOTOPE PRODUCTION REACTORS; ISOTOPE PRODUCTION; COBALT 60; COMPUTER CODES

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**Drawing of radioactive label technetium-99m on magnetically nanocolloids  
Fe@C (IDA)**

**S07**

*Sadkin, V.L. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: sadkin@tpu.ru*

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Nanesenie radioaktivnoj metki tekhnetsiya-99m na magnitoupravlyaemye nanokolloidy Fe@C (IDA)

p. 76

(RU, EN)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

### **The behavior of hydrogen in titanium when irradiated by neutrons**

**S36**

*Syuj Shupehn; Larionov, V.V. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: isxusp@qq.com*

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Povedenie vodoroda v titane pri ego obluchenii nejtronami

p. 77

(RU)

3 refs., 1 fig., 1 tab.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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122 p.

MATERIALS; TITANIUM HYDRIDES; TITANIUM; IRRADIATION; NUCLEAR POWER;  
REACTOR SAFETY

---

### **Determination of snow water equivalent by the atmospheric beta-background**

**S63**

*Beljaeva, I.V. (Tomsk Polytechnic Univ., Tomsk (RU); Tomsk State Univ. of Architecture and Building, Tomsk (RU)); Yakovlev, G.A. (Lyceum at Tomsk Polytechnic Univ., Tomsk (RU)); Yakovleva, V.S. (Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: asdf75@bk.ru*

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p. 78

(EN)

1 fig.

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technologies, materials and applications». Book of abstracts  
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Izd-vo Grafika  
2018  
122 p.  
BACKGROUND RADIATION; RADIATION EFFECTS; RADIATION HAZARDS;  
RADIATION MONITORING; RADIATION PROTECTION; MONTE CARLO METHOD

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## **Dependence of cosmic ray component in background of atmosphere surface from solar magnetic activity**

**S79**

*Zelinskii, A.S.; Yakovleva, V.S. (Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: vsyakovleva@tpu.ru*

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p. 79

(EN)

1 ref., 2 figs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

COSMIC RADIATION; COSMIC RAY FLUX; SOLAR ACTIVITY; FLUX DENSITY;  
MONTE CARLO METHOD; PHOTONS

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## **The difficulties of detector calibration used for monitoring soil radon-222**

**S54**

*Cherepnev, M.S.; Yakovleva, V.S. (Tomsk Polytechnic Univ., Tomsk (RU)); Yakovlev, G.A. (Municipal Budgetary Educational Institution of Lyceum at TPU, Tomsk (RU)), E-mail: vsyakovleva@tpu.ru*

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«Izotopy: tekhnologii, materialy i primeneniye»

p. 80

(EN)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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122 p.

ENVIRONMENTAL PROTECTION; AIR POLLUTION MONITORING; RADIATION MONITORING; BETA DETECTION; RADIATION DETECTORS; RADON 222

---

## **Radon isotopes as an indicators of dynamic atmospheric processes**

**S54**

*Yakovlev, G.A. (Lyceum at Tomsk Polytechnic Univ., Tomsk (RU)); Nguen, T.H.; Yakovleva, V.S. (Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: vsyakovleva@tpu.ru*

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p. 81

(EN)

1 fig.

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122 p.

ENVIRONMENTAL PROTECTION; POPULATION DYNAMICS; RADON; RADIOMETERS; RADIONUCLIDE MIGRATION; RADON 220

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## **Assessment of the feasibility of installing a new channel for phosphorus production**

**S21**

*Emets, E.G.; Varlachev, V.A.; Zukau, V.V.; Kabanov, D.V.; Maslennikov, Yu.S.; Chibisov, E.V.*

(Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: merkvg@tpu.ru

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Otsenka tselesoobraznosti ustanovki novogo kanala dlya polucheniya fosfora

p. 82

(RU)

1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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2018

122 p.

NUCLEAR POWER; IRT REACTOR; FUEL ASSEMBLIES; REACTOR CORES; CAPTURE;  
MONTE CARLO METHOD

---

**Factors affecting the thermosublimation purification of phosphorus-32 obtained  
from the nuclear reaction  $^{32}\text{S}(\text{n},\text{p})^{32}\text{P}$**

**S07**

Zukau, V.V.; Kabanov, D.V.; Maslennikov, Yu.S.; Chibisov, E.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: merkvg@tpu.ru

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Faktory, vliyayushchie na termosublimatsionnyuyu ochistku fosfora-32, narabotannogo po yadernoj reaktsii  $^{32}\text{S}(\text{n},\text{p})^{32}\text{P}$

p. 83

(RU)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

ISOTOPE PRODUCTION; PURIFICATION; PHOSPHORUS 32; SULFUR 32;  
EXTRACTION COLUMNS; PHOSPHORUS OXIDES

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### **Evaluation of the effectiveness of biological protection of a medical linear accelerator used for the therapy of malignant tumors**

**S62**

*Zukau, V.V.; Donyaeva, E.S.; Chikova, I.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: zukau@tpu.ru*

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Otsenka ehffektivnosti biologicheskoy zashchity meditsinskogo linejnogo uskoritelya,  
primenyaemogo dlya terapii zlokachestvennykh opukholej

p. 84

(RU)

1 tab.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

NUCLEAR MEDICINE; RADIOTHERAPY; NEUTRON THERAPY; NEOPLASMS;  
LINEAR ACCELERATORS; RADIATION DOSES

---

### **Estimation of rain intensity by radiation markers**

**S54**

*Pustovalov, K.N (Inst. of Monitoring of Climatic and Ecological Systems, Siberian Branch of  
Russian Academy of Sciences, Tomsk (RU); Tomsk State Univ., Tomsk (RU)); Yakovlev, G.A.  
(Lyceum at Tomsk Polytechnic Univ., Tomsk (RU)); Belyaeva, I.V. (Tomsk Polytechnic Univ.,  
Tomsk (RU); Tomsk State Univ. of Architecture and Civil Engineering, Tomsk (RU)); Yakovleva,  
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p. 85

(EN)

1 fig.

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122 p.

ENVIRONMENT; CONTROLLED ATMOSPHERES; ATMOSPHERIC PRECIPITATIONS; ENVIRONMENTAL EFFECTS; RADIATION METROLOGY; EMANOMETERS

---

## **Radiation control of wastewater during radiological research in vivo based on Tc - 99m**

**S22**

*Bezdenzhnykh, I.V.; Bryanskiy, K.S. (Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: i.v.bezdenzhnykh@tomonco.ru*

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p. 86

(EN)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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122 p.

NUCLEAR POWER; RADIATION MONITORING; WASTE WATER; RADIATION PROTECTION; WATER TREATMENT; TECHNETIUM 99

---

## **Synthesis and investigation of a preparation based on <sup>212</sup>Pb-labeled dotatate synthetic peptide for therapy of neuroendocrine tumors**

**S62**

*Kokov, K.V.; Chuvilin, D.Yu. (National Research Center "Kurchatov Inst.", Moscow (RU)), E-mail: kvkokov@yandex.ru; Egorova, B.V. (Faculty of Chemistry, Lomonosov Moscow State Univ., Moscow (RU))*

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p. 87

(EN)

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122 p.

NUCLEAR MEDICINE; RADIOTHERAPY; NEUTRON THERAPY; NEOPLASMS;  
PEPTIDES; RADIOISOTOPES

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**Determination of Sr and Mg content in aqueous solutions obtained during  
separation by the method of electroinduced drift**

**S37**

*Maslennikov, Yu.S.; Ushakov, I.A.; Abdiyanov, A.E. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: jiaozu@tpu.ru*

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Opređenje soderzhaniya Sr i Mg v vodnykh rastvorakh, poluchaemykh v protsesse razdeleniya metodom ehlektroindutsirovannogo drejfa

p. 88

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ.», Tomsk (RU)

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122 p.

PHYSICAL CHEMISTRY; ELECTRON DRIFT; SOLVATED ELECTRONS; SOLUTIONS;  
MAGNESIUM; STRONTIUM; SEPARATION PROCESSES

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### **Separation of Sr and Mg by the electrically induced drift technique**

**S37**

*Ushakov, I.A.; Golovkov, N.I.; Bolgov, S.Yu. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: timsn@tpu.ru*

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Razdelenie Sr i Mg metodom ehlektroindutsirovannogo drejfa

p. 89

(RU)

2 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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2018

122 p.

PHYSICAL CHEMISTRY; SEPARATION PROCESSES; SOLUTIONS; MAGNESIUM;  
STRONTIUM; ELECTRIC FIELDS

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### **Separation of Ba and Sr by the electrically induced drift technique**

**S37**

*Maslennikov, Yu.S.; Ushakov, I.A.; Timchenko, S.N.; Golovkov, N.I. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: jiaozu@tpu.ru*

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Razdelenie Ba i Sr metodom ehlektroindutsirovannogo drejfa

p. 90

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2 refs.



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PHYSICAL CHEMISTRY; SEPARATION PROCESSES; SOLUTIONS; BARIUM; STRONTIUM; ELECTRIC FIELDS

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### **Mathematical modeling of the dipole drift under the impact of an external periodic electric field**

**S97**

*Ushakov, I.A.; Butov, V.G.; Timchenko, S.N. (Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: jiaozu@tpu.ru*

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Matematicheskoe modelirovanie drejfa dipolya pod dejstviem vneshnego periodicheskogo ehlektricheskogo polya

p. 91

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2 refs.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; ELECTRIC DIPOLES; ELECTRIC FIELDS; SOLVATED ELECTRONS

---

### **Development of an installation for obtaining radon solution in water and organic liquid**

**S07**



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Razrabotka ustanovki dlya polucheniya rastvora radona v vode i organicheskoy zhidkosti

p. 92

(RU)

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Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

PHYSICAL CHEMISTRY; RADON 222; AQUEOUS SOLUTIONS; RADIATION  
PROTECTION; URANIUM 238; ACTIVITY LEVELS

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**Study of the impact of the type of rocks on the release of radon from their  
surface**

**S54**

*Stavitskaya, K.O.; Ryzhakova, N.K.; Udalov, A.A. (Tomskij Politekhnikeskij Univ., Tomsk  
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Izuchenie vliyaniya tipa porod na vykhod radona s ikh poverkhnosti

p. 93

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122 p.

ENVIRONMENTAL ENGINEERING; ENVIRONMENTAL QUALITY; AIR QUALITY;  
RADON; EMANOMETERS; RADIATION PROTECTION

---

**Analysis of the operating parameters of the hydrogen isotope separation plant  
S07**

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Analiz parametrov raboty ustanovki dlya razdeleniya izotopov vodoroda

p. 94

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2 refs.

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122 p.

ISOTOPES; ISOTOPE SEPARATION; HYDROGEN ISOTOPES; OXYGEN 17; OXYGEN  
18; HEAVY WATER

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**Preparation of press powders for fabricating carbon materials into pellets  
S37**

*Akimov, V.N.; Boretskij, E.A.; Vidyaev, D.G. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-  
mail: eboretsky@mail.ru; Savostikov, D.V. (Tomskij Gosudarstvennyj Univ. Sistem Upravleniya  
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Podgotovka press-poroshkov pri fabrikatsii uglerodnykh materialov v tabletki

p. 95

(RU)

2 refs., 1 tab.

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122 p.  
CHEMISTRY; PURIFICATION; PLASTICS; CARBON; SORPTION; PRESSING; PELLETIZING

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### **Obtaining a plasticizer for pelletizing carbon black**

**S37**

*Boretskij, E.A.; Dmitriev, V.V.; Tsvetkov, A.D. (Tomskij Politekhničeskij Univ., Tomsk (RU)),  
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Poluchenie plastifikatora dlya tabletirovaniya tekhnicheskogo ugleroda

p. 96

(RU)

1 ref.

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122 p.

CHEMISTRY; PRESSING; SORPTION; PELLETIZING; CARBON; NICKEL CHLORIDES

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### **Investigation of the impact of highly heat-conducting alloys on the uniformity of the distribution of the dopant at neutron transmutation doping of silicon in vertical experimental channel of the IRT-T reactor**

**S36**

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Issledovanie vliyaniya vysokoteploprovodyashchikh splavov na ravnomernost' raspredeleniya legiruyushchej primesi pri nejtronno-transmutatsionnom legirovanii kremniya v vertikal'nom ehksperimental'nom kanale reaktora IRT-T

p. 97

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1 ref., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

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122 p.

METALLURGICAL EFFECTS; ION IMPLANTATION; SILICON; TRANSMUTATION;  
THERMAL DIFFUSION; REACTOR CHANNELS; SEMICONDUCTOR MATERIALS

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**The production of Sm-153 at the IRT-T reactor and its optimization**

**S07**

*Belyaev, V.V. (Tomskij Politekhneskij Univ., Tomsk (RU)), E-mail:*

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Protseess narabotki Sm-153 na reaktore IRT-T i ego optimizatsiya

p. 98

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4 refs.

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122 p.

ISOTOPE PRODUCTION REACTORS; IRT REACTOR; RADIOISOTOPES; ISOTOPE PRODUCTION; SAMARIUM 153; NEUTRON CAPTURE THERAPY

---

### **The content of Ra-226 in rocks of different types**

**S07**

*Al'myakov, P.Eh.; Cherepnev, M.S. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: al.pa2014@yandex.ru*

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Soderzhanie Ra-226 v porodakh raznogo tipa

p. 99

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3 refs.

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122 p.

RADIATION PROTECTION; RADIOECOLOGY; RADIONUCLIDE MIGRATION; RADIUM 226; RADON 222; PUBLIC HEALTH

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### **Production of colloidal rhenium heptasulfide for radioisotopic diagnostics**

**S62**

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Poluchenie kolloidnogo geptasul'fida reniya dlya radioizotopnoj diagnostiki

p. 101-102

(RU)

1 fig.

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122 p.  
NUCLEAR MEDICINE; DIAGNOSTIC TECHNIQUES; X-RAY EQUIPMENT;  
NEOPLASMS; THERAPY; RHENIUM 188

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### **The impact of the density of a mixture of uranium and plutonium dioxide powders on the density of granulate in the technology of MOX-fuel production** **S21**

*Karelin, V.A.; Malyshev, M.S.; Gubskaya, M.L. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: vakarelin@tpu.ru, blackraabit@gmail.com, masha.gubskaya.97@mail.ru; Karelina, N.V. (Sankt-Peterburgskij Gornyj Univ., Sankt-Peterburg (RU)), E-mail: nvkarelina@yandex.ru*

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Vliyaniye plotnosti smesi poroshkov dioksidov urana i plutoniya na plotnost' granulyata v tekhnologii proizvodstva MOX-topliva

p. 103

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4 refs.

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122 p.

FAST REACTORS; CLOSED FUEL CYCLE; NUCLEAR FUELS; MIXED OXIDE FUELS; URANIUM DIOXIDE; PLUTONIUM DIOXIDE; FUEL DENSIFICATION

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### **Application of cold crucible induction melter for immobilization of high-active radwaste after extraction processing of SNF** **S12**

*Karelin, V.A.; Tikhonov, M.A.; Shutova, S.K. (Natsional'nyj Issledovatel'skij Tomskij*



*Politehnicheskij Univ., Tomsk (RU)), E-mail: vakarelin@tpu.ru, imax927@gmail.com, sofisnake@outlook.com; Karelina, N.V. (Sankt-Peterburgskij Gornyj Univ., Sankt-Peterburg (RU)), E-mail: nvkarelina@yandex.ru*

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Primenenie IPKhT dlya immobilizatsii VAO posle ehkstraktsionnoj pererabotki OYaT  
p. 104

(RU)

2 refs.

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122 p.

NUCLEAR ENERGY; RADIOACTIVE WASTE MANAGEMENT; WASTE PROCESSING;  
HIGH-LEVEL RADIOACTIVE WASTES; LIQUID WASTES; CRUCIBLES

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**Study of the parameters of decomposition of waste containing rare earth metals  
S12**

*Merkel', K.I.; Grechenok, E.Yu.; Strashko, A.N. (Tomskij Politehnicheskij Univ., Tomsk (RU)),  
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Izuchenie parametrov razlozheniya otkhodov s sodержaniem redkozemel'nykh metallov  
p. 105-106

(RU)

2 figs., 1 tab.

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122 p.

RADIOACTIVE MATERIALS; RADIOACTIVE WASTE PROCESSING;  
DECOMPOSITION; LEACHING; HYDROCHLORIC ACID; RARE EARTHS

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### **Investigation of obtaining stable selenium isotopes during chemical processing of isotope-enriched selenium hexafluoride**

**S07**

*Isaeva, E.A.; Zajtseva, A.S. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: asz36@tpu.ru*

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Issledovanie polucheniya stabil'nykh izotopov selena pri khimicheskoy pererabotke izotopno-obogashchennogo geksaftorida selena

p. 107

(RU)

1 tab.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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Tomsk (RU)

Izd-vo Grafika

2018

122 p.

ISOTOPES; ISOTOPE PRODUCTION; SELENIUM 74; SELENIUM 76; STABLE  
ISOTOPES; ISOTOPE ENRICHED MATERIALS; IMPURITIES

---

### **Investigation of isotope separation under conditions of combination of electroionite and exchange processes**

**S07**

*Balashkov, V.S.; Vergun, A.P.; Belyakov, D.M. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: vit@mail.ru*

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Issledovaniya po razdeleniyu izotopov v usloviyakh sovmeshcheniya ehlektroionitnykh i

obmennykh protsessov

p. 108

(RU)

4 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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2018

122 p.

ISOTOPES; ISOTOPE PRODUCTION; ISOTOPE SEPARATION; ISOTOPIC EXCHANGE; MEMBRANES; ION EXCHANGE MATERIALS

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## **Directed search, modeling of electrochromatographic and exchange processes of isotope separation**

**S07**

*Balashkov, V.S.; Vergun, A.P.; Belyakov, D.M. (Natsional'nyj Issledovatel'skij Tomskij Politekhničeskij Univ., Tomsk (RU)), E-mail: anatoli@tpu.ru*

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Napravlenyj poisk, modelirovanie ehlektrohromatograficheskikh i obmennykh protsessov izotopnogo razdeleniya

p. 109

(RU)

3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe

Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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2018

122 p.

ISOTOPES; ISOTOPE SEPARATION; ISOTOPIC EXCHANGE; ELECTROCHROMISM; SIMULATION; MATHEMATICAL SOLUTIONS

---

## **Technology for purification of irradiated beryllium from tritium and cobalt-60 radionuclides**

**S12**

*Baklanova, Yu.Yu.; Sitnikov, A.A.; Vurim, A.D. (Altajskij Gosudarstvennyj Tehniceskij Univ. imeni I.I. Polzunova, Barnaul (RU))*

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Tekhnologiya ochistki obluchennogo berilliya ot radionuklidov tritiya i kopal'ta-60

p. 110

(RU)

1 ref.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhneskij Univ.», Tomsk (RU)

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Izd-vo Grafika

2018

122 p.

SPENT FUEL ELEMENTS; RADIOACTIVE WASTES; RADIOISOTOPES; PURIFICATION; BERYLLIUM; COBALT 60

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## **Optimization of isotope separation processes during counter-current electromigration in the ionit-solution system**

**S07**

*Grigor'ev, M.I.; Balashkov, V.S.; Vergun, A.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhneskij Univ., Tomsk (RU)), E-mail: anatoli@tpu.ru*

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Optimizatsiya protsessov izotopnykh razdelenij pri protivotochnoj ehlektromigratsii v sisteme ionit-rastvor

p. 111

(RU)

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhneskij Univ.», Tomsk (RU)

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Tomsk (RU)  
Izd-vo Grafika  
2018  
122 p.  
ISOTOPES; ISOTOPE SEPARATION; COUNTERFLOW SYSTEMS; ELECTRODIALYSIS;  
PURIFICATION; ELECTROPHORESIS

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### **Impregnated sorbents for selective recovery of Pb<sup>2+</sup>**

**S12**

*Bezhin, N.A.; Tovarchij, Ya.Yu. (FGAOU VO Sevastopol'skij Gosudarstvennyj Univ., Sevastopol' (RU)), E-mail: nickbezhin@yandex.ru; Dovgij, I.I. (FGBUN Morskoj Gidrofizicheskij Inst. RAN, Sevastopol' (RU))*

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Sorbenty impregirovannogo tipa dlya selektivnogo izvlecheniya Pb<sup>2+</sup>

p. 112

(RU)

3 refs., 2 figs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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2018

122 p.

NUCLEAR CHEMISTRY; IMPREGNATION; SORPTION; SORBENT RECOVERY SYSTEMS; RADIOACTIVE WASTE MANAGEMENT; LEAD ISOTOPES

---

### **Distribution of <sup>137</sup>Cs in the surface layer of the Black Sea**

**S54**

*Dovgij, I.I.; Kremenchutskij, D.A. (FITs «Morskoj Gidrofizicheskij Inst. RAN», Sevastopol' (RU)), E-mail: dovhyl.illarion@yandex.ru; Shibetskaya, Yu.G. (FGAOU VO «Sevastopol'skij Gosudarstvennyj Univ.», Sevastopol' (RU))*

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Raspredeleniye  $^{137}\text{Cs}$  v poverkhnostnom sloe Chernogo morya  
p. 113  
(RU)  
3 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdeniye Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ.», Tomsk (RU)

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122 p.

ENVIRONMENT; BLACK SEA; SURFACE WATERS; RADIONUCLIDE MIGRATION; SURFACE CONTAMINATION; CESIUM 137; POTASSIUM 40

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## **Measurement of the proton conductivity of a polymer modified ETFE membrane S54**

*Veshkin, I.A.; Koptsev, M.O.; Severin, A.V. (Tomskij Politekhnicheskij Univ., Tomsk (RU)), E-mail: Maxkoptsev@gmail.com*

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Izmereniye protonnoj provodimosti polimernoj modifitsirovannoj membrany ETFE

p. 114

(RU)

3 refs., 1 tab.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdeniye Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ.», Tomsk (RU)

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122 p.

ENVIRONMENTAL PROTECTION; ENVIRONMENTAL IMPACTS; HYDROGEN; HYDROGEN FUELS; POLYMERS; MEMBRANES

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## **Separation of metal ions by highly selective track membranes**

**S37**

*Koptsev, M.O.; Veshkin, I.A.; Severin, A.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: Maxkoptsev@gmail.com*

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Razdelenie ionov metallov trekovymi vysokoselektivnymi membranami

p. 115

(RU)

2 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

MATERIALS; ION EXCHANGE; ION EXCHANGE MATERIALS; MAGNESIUM IONS;  
POTASSIUM IONS; MEMBRANES

---

## **Magnetic separation of aqueous suspensions after plasma processing of waste water treatment**

**S12**

*Bass, V.I.; Karengin, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: vadim2@tpu.ru*

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Magnitnaya separatsiya vodnykh suspenzij posle plazmennoj pererabotki otkhodov vodopodgotovki

p. 116

(RU)

2 refs., 1 fig.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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2018  
122 p.  
NONRADIOACTIVE WASTE MANAGEMENT; WASTE PROCESSING; WATER  
TREATMENT; WATER CHEMISTRY; WASTE DISPOSAL; MAGNETIC SEPARATORS

---

## **Electrical regeneration of spent process solutions**

**S12**

*Dorofeeva, L.I.; Mikhajlov, A.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: agm10@tpu.ru*

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Ehlektroregeneratsiya otrabotannykh tekhnologicheskikh rastvorov

p. 117

(RU)

5 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe  
Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya  
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122 p.

NONRADIOACTIVE WASTE MANAGEMENT; WASTE PROCESSING; WASTE  
DISPOSAL; WATER CHEMISTRY; WATER TREATMENT; ELECTRODIALYSIS

---

## **Investigation of the liquid radioactive waste immobilization process**

**S12**

*Pshenichnikov, A.S.; Dorofeeva, L.I. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: asp50@tpu.ru*

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Issledovanie protsessa immobilizatsii zhidkikh radioaktivnykh otkhodov



p. 118

(RU)

4 refs.

Ministerstvo Nauki i Vysshego Obrazovaniya Rossijskoj Federatsii, Moscow (RU); Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya

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122 p.

NUCLEAR ENERGY; RADIOACTIVE WASTE MANAGEMENT; LIQUID WASTES; SOLIDIFICATION; VITRIFICATION; CERAMICS

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### **Scientific-technical conference «Neutron-physical problems of atomic energy».**

#### **Abstracts**

**S29;S22;S21**

AO «Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii — Fiziko-Ehnergetičeskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)

#### **Scientific-technical conference «Neutron-physical problems of atomic energy»**

Obninsk (RU)

27-29 Nov 2019

Nauchno-tekhnicheskaya konferentsiya «Nejtronno-fizicheskie problemy atomnoj ehnergetiki»

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On November 27-29, 2019, leading Russian experts discussed the development of nuclear reactors at the 30th Scientific-technical conference «Neutron-physical problems of atomic energy (Neutronics-2019)», held at the SSC RF - IPPE. The issues of nuclear energy development were considered. Reports are presented on two-component nuclear energy and promising nuclear facilities, nuclear and radiation safety of nuclear facilities, neutron kinetics and non-stationary processes. Numerical methods, algorithms and programs of neutron-physical calculations, constants for neutron-physical calculations are discussed. The analysis of integral and reactor experiments is carried out, databases, benchmark models are considered. The conference held a competition of young scientists, the results of which were summed up at a special youth section

27-29 ноября 2019 года ведущие российские специалисты обсудили развитие ядерных реакторов на 30-й Научно-технической конференции «Нейтронно-физические проблемы атомной энергетики (Нейтроника-2019)», прошедшей на базе АО «ГНЦ РФ - ФЭИ». Были рассмотрены вопросы развития ядерной энергетики. Представлены доклады по двухкомпонентной атомной энергетике и перспективным ядерным установкам, ядерной и радиационной безопасности объектов атомной отрасли, нейтронной кинетике и нестационарным процессам. Обсуждаются численные методы, алгоритмы и программы нейтронно-физических расчетов, константы для нейтронно-физических расчетов. Проведен анализ интегральных и реакторных экспериментов, рассматриваются базы данных, бенчмарк-модели. На конференции состоялся конкурс молодых ученых, итоги которого подвели на специальной молодежной секции

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## **Development objectives of the BN reactor cores**

**S21**

*Vasil'ev, B.A. (АО «ОКБМ Африкантов», Nizhnij Novgorod (RU))*

**Scientific-technical conference «Neutron-physical problems of atomic energy»**

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27-29 Nov 2019

Nauchno-tehnicheskaya konferentsiya «Nejtronno-fizicheskie problemy atomnoj ehnergetiki»

Tseli i zadachi razrabotok aktivnykh zon reaktorov BN

p. 3-5

(RU)

6 refs.

АО «Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii — Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)

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BN-350 REACTOR; BELOYARSK-3 REACTOR; BELOYARSK-4 REACTOR; REACTOR PLANNING; REACTOR CORES; REACTOR SAFETY; BREEDING RATIO; BN-1200 REACTOR

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## **Investigation into the possibility of minor actinides burnup in a fast reactor with metal fuel based on only minor actinides**

**S22**

*Korobejnikov, V.V. (АО «GNTs RF–FEhI», Obninsk (RU)); Kolesov, V.V.; Terekhova, A.M.;*

*Karazhelevskaya, Yu.E. (IATEh NIYaU MIFI, Obninsk (RU))*

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Issledovanie vozmozhnosti vyzhiganiya minornykh aktinidov v bystrom reaktore s metallicheskim toplivom na osnove tol'ko minornykh aktinidov

p. 6-7

(RU)

1 tab.

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AMERICIUM 241; NEPTUNIUM 237; MIXED OXIDE FUELS; FAST REACTORS;  
TRANSMUTATION; BURNUP; REACTOR CORES; CAPTURE-TO-FISSION RATIO

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### **Advantages of a fast reactor with physically thick lead-208 reflector**

**S22**

*Shmelev, A.N.; Apseh, V.A.; Kulikov, E.G. (NIYaU MIFI, Moscow (RU)); Kulikov, G.G. (GK «Rosatom», Moscow (RU))*

**Scientific-technical conference «Neutron-physical problems of atomic energy»**

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### **Influence of process parameter uncertainties on the neutron-physical characteristics of HTGR and the isotope ratio of fuel during irradiation**

**S21**

*Grol', A.V.; Boyarinov, V.F.; Fomichenko, P.A. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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### **About transmutation of minor actinides in a molten salt burner reactor**

**S22**

*Belonogov, M.N.; Volkov, I.A.; Modestov, D.G.; Simonenko, V.A.; Khmel'nitskij, D.V. (FGUP «Rossijskij Federal'nyj Yadernyj Tsentr — Vserossijskij Nauchno-Issledovatel'skij Inst. Tehnicheskoy Fiziki imeni Akademika E.I. Zababakhina», Snezhinsk (RU))*

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### **Analysis of the competitiveness of the new generation BN power unit project taking into account system requirements**

**S21**

*Alekseev, P.N.; Balanin, A.L.; Nevinitza, V.A. (NITs «Kurchatovskij Inst.», Moscow (RU)) (and others)*

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### **On the issue of plutonium price in a two-component nuclear power system**

**S22**

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### **Supporting the next generation reactors by nuclear data**

**S22**

*Andrianova, O.N.; Zherdev, G.M.; Kislitsyna, T.S.; Nikolaev, M.N. (AO «GNTs RF—FEhI im.  
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## **Investigation into the possibility of closure of the nuclear fuel cycle for the WWER-1000 reactor**

**S21**

*Semishin, V.V.; Kavun, O.Yu. (FBU «NTTs YaRB», Moscow (RU))*

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*Marikhin, N.Yu.; Valishin, M.F. (AO «GNTs — Nauchno-issledovatel'skij Inst. Atomnykh  
Reaktorov», Dimitrovgrad (RU))*

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## **Features of the advanced fast reactor cores**

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*Klinov, D.A.; Gulevich, A.V.; Eliseev, V.A.; Malysheva, I.V.; Bur'evskij, I.V. (AO «GNTs RF—FEhI im. A.I. Lejpunskogo», Obninsk (RU))*

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## **The calculation of the dominant ratio for the BN-type reactor core**

**S21**

*Gulevich, A.V.; Dolgikh, V.P.; Eliseev, V.A.; Peregodova, O.O.; Rozhikhin, E.V.; Semenov, M.Yu.; Stogov, V.Yu.; Tormyshev, I.V. (AO «GNTs RF—FEhI», Obninsk (RU))*

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## **On the issue of export of fast reactors in the conditions of the international nuclear non-proliferation regime**

**S22**

*Gulevich, A.V.; Dekusar, V.M.; Chebeskov, A.N. (GNTs RF–FEhI im. A.I. Lejpunskogo, Obninsk (RU)); Kuchinov, V.P. (NIYaU–MIFI, Moscow (RU)); Voloshin, N.P. (RFYaTs–VNIITF im. E.I. Zababakhina, Snezhinsk (RU))*

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## **The possibility of plutonium «ennobling» in BN-800**

**S11**

*Bur'evskij, I.V.; Gulevich, A.V.; Dekusar, V.M.; Dolgikh, V.P.; Eliseev, V.A.; Klinov, D.A.;*

*Mishin, V.A.; Tormyshev, I.V.; Usanov, V.I. (AO «GNTs RF – Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))*

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**Modeling experiments on an ASPIS installation using the Monte Carlo method**

**S97**

*Salyaev, A.V.; Usynina, S.G.; Bronnikov, S.V. (AO «OKBM Afrikantova», Nizhnij Novgorod (RU))*

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**On the formulation of precision nuclear physics experiments to verify the codes used in the calculations of a molten-salt reactor-burner of minor actinides**

**S97**

*Andreev, S.A.; Belonogov, M.N.; Volkov, I.A.; Litvin, V.I.; Modestov, D.G.; Simonenko, V.A.; Sokolov, Yu.A.; Trapeznikov, M.A.; Khmel'nitskij, D.V.; Yudov, A.A. (FGUP «RFYaTs – VNIITF im. Akademika E.I. Zababakhina», Snezhinsk (RU))*

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**Calculation analysis of benchmark experiments with a fast neutron spectrum and RBN models with sodium and lead coolant using Evaluated Neutron Data Library**

**S97**

*Andrianova, O.N.; Golovko, Yu.E.; Zherdev, G.M.; Lomakov, G.B.; Teplukhina, E.S. (AO «GNTs RF – FEhI», Obninsk (RU))*

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### **Testing the KIR program in critical experiments with solution fuel**

**S97**

*Gomin, E.A.; Davidenko, V.D.; Shirokov, R.V. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**S97**

*Volkov, Yu.N.; Kruglikov, A.E.; Soldatov, E.O. (NIYaU MIFI, Moscow (RU)); Zizin, M.N.; Boyarinov, V.F.; Nevinitsa, V.A.; Fomichenko, P.A.; Bobrov, A.A. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**Some tasks in the design support of the BN-600 reactor. (Analysis of reactivity margin in 76 cycle between refueling)**

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*Gurskaya, O.S.; Korobejnikova, L.V.; Stogov, V.Yu.; Mishin, V.A. (AO «GNTs RF – Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))*

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*Nikolaev, A.L.; Uvakin, M.A. (AO OKB «GIDROPRESS», Podol'sk (RU))*

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### **Uncertainty management in the initial data when calculating the effective multiplication factor of a research nuclear installation core**

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*Andrianova, O.N.; Zherdev, G.M.; Teplukhina, E.S. (AO «GNTs RF–FEhI», Obninsk (RU));*

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*Belov, A.A. (IBRAEh RAN, Moscow (RU)); Bikeev, A.S.; Dajchenkova, Yu.S.; Shkarovskij, D.A. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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*Kruglikov, A.E.; Nasonov, V.A.; Pesnya, Yu.E.; Trofimchuk, V.V. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**S97**

*Listov, A.S.; Zhukov, V.D.; Sinitsa, V.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Listov\_AS@nrcki.ru*

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*Kamaeva, E.A.; Kudinov, A.S.; Agafonova-Moroz, M.S.; Kovalev, N.V.; Murzin, A.A.; Ryabkova, N.V. (AO «Radievyj Inst. im. V.G. Khlopina», Sankt-Peterburg (RU))*

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*Beznosov, A.V.; Bokova, T.A.; Bokov, P.A.; Marov, A.R.; L'vov, A.V.; Volkov, N.S. (NGTU - FGBOU VO «Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva», Nizhnij Novgorod (RU))*

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*D'yachkov, I.I.; Ioannisian, M.V. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**S21**

*Bogdanova, E.V.; Smirnov, A.D.; Tikhomirov, G.V. (NIYaU MIFI, Moscow (RU)); Ashraf, O. (Univ. Ajn-Shams, Kair (EG))*

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**S97**

*Bogdanova, E.V.; Tikhomirov, G.V. (NYaIU MIFI, Moscow (RU)); Suslov, I.R.; Khomyakov, Yu.S. (ChU «ITSP «PRORYV», Moscow (RU))*

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## **Calculating sensitivity coefficients of experiments on the irradiation of fuel in fast reactors**

**S22**

*Manturov, G.N.; Slyunyaev, M.N.; Tykleeva, K.V. (AO «GNTs RF–FEhI», Obninsk (RU));*

*Khomyakov, Yu.S. (ChU ITTsP «PRORYV», Moscow (RU))*

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## **Calculation of the biological protection of the transport container for irradiated graphite moderator in nuclear reactors type RBMK-1000**

**S21**

*Sidorov, N.M.; Ivshin, A.V.; Fedorovich, E.D. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo (SPbPU Petra Velikogo), Sankt-Peterburg (RU))*

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## **Computing afterburning simulation of fuel assemblies of the Leningrad NPP power units № 1 and № 2 after decommissioning**

**S21**

*Alimov, Yu.V.; Galeeva, N.M.; Zhirnov, A.P.; Kuznetsov, P.B.; Rozhdestvenskij, I.M. (AO «NIKIEhT», Moscow (RU))*

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### **Transfer of RBMK-1000 reactors to regenerated fuel with a high content of even uranium isotopes**

**S21**

*Alimov, Yu.V.; Galeeva, N.M.; Davydov, V.K.; Zhirnov, A.P.; Kuznetsov, P.B.; Rozhdestvenskij, I.M. (AO «NIKIEhT», Moscow (RU))*

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### **Development and testing of a full-scale mathematical model of a transport container for radiation safety analysis using the Monte Carlo method for the transportation of WWER-1000 and WWER-1200 fuel**

**S21**

*Bikeev, A.S.; Dajchenkova, Yu.S.; Kalugin, M.A.; Olejnik, D.S.; Shkarovskij, D.A. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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### **An alternative approach to setting the allowable emission of gas-aerosol mixture S54**

*Vukolova, A.-N.V.; Rusinkevich, A.A. (NITs «Kurchatovskij Inst.», Moscow (RU)); Dolgikh, A.P.  
(AO «Kontsern Rosehnergoatom», Moscow (RU))*

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### **EGP-6 Nuclear calculator program for engineering calculations of SFA Bilibino radiation characteristics**

**S97**

*Zherdev, G.M.; Suvorov, A.P. (AO «GNTs RF – FEhI», Obninsk (RU))*

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**Burial cost estimation of conditioned differently sodium of primary coolant  
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**S12**

*Dolgikh, V.P.; Zabrodskaya, S.V.; Popov, Eh.P.; Smykov, V.B. (AO GNTs RF–FEhI, Obninsk  
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**Analysis of the results of applying the dynamic method for calculating the safety**

## **tests of load following at WWER**

**S21**

*Uvakin, M.A.; Nikolaev, A.L.; Makhin, I.V.; Sotskov, E.V. (AO OKB «GIDROPRESS», Podol'sk (RU))*

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## **Solution of the adjoint problem for the non-stationary transport equation without taking into account collisions and the transition probability of the Markov process**

**S97**

*Popykin, A.I. (FBU «NTTs YaRB», Moscow (RU))*

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**Comparison of the computational simulation results of measuring the efficiency of emergency protecting and measurements performed at the stage of physical start-up of power units № 1, 2 of Novovoronezh NPP-2 and power unit № 1 of the Leningrad NPP-2**

**S97**

*Kulikov, V.I. (Sankt-Peterburgskij Filial AO «FTsNIVT «SNPO «Ehleron»-«VNIPIEhT», Sankt-Peterburg (RU)); Zhylmaganbetov, N.M.; Popykin, A.I.; Smirnova, A.A. (FBU «NTTs YaRB», Moscow (RU)); Kryakvin, L.V.; Pitilimov, V.A.; Sedov, O.S.; Tereshonok, V.A.; Sizov, R.A. (AO «VNIAEhS», Moscow (RU))*

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**The results of the BN-800 power ascension simulation at MCRP upon completion of the 5 cycle between refueling**

**S21**

*Seleznev, E.F.; Belov, A.A.; Drobyshev, Yu.Yu. (IBRAEh RAN, Moscow (RU)); Ivanov, A.A.; Mitrofanov, S.Yu.; Kuz'min, A.S. (Filial AO «Kontsern Rosehnergoatom» «Beloyarskaya Atomnaya Stantsiya», Zarechnyj (RU))*

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### **Some features of the calculation of a reactor unsteady behavior**

**S97**

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### **Calculation of non-stationary three-dimensional neutron-physical tests of the international benchmark C5G7-TD using the SUHAM-3D-TD program**

**S97**

*Boyarinov, V.F. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**On modeling the initial source of instantaneous neutrons for solving non-stationary problems by the Monte Carlo method**

**S97**

*Ioannisian, M.V.; Gomin, E.A.; Davidenko, V.D.; D'yachkov, I.I. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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**Surface harmonics method for neutron-physical calculation of a three-dimensional heterogeneous reactor with asymmetric cells**

**S97**

*El'shin, A.V. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU)); Agalina, P.V. (IYaEh (Filial) SPbPU Petra Velikogo, Sosnovyj Bor (RU))*

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### **Stable algorithm for calculating a single-group diffusion coefficient in a multi-zone cylindrical cell using the surface pseudo-source method**

**S97**

*Sultanov, N.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Sultanov\_NV@nrcki.ru*

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COMPUTER CALCULATIONS; ALGORITHMS; DIFFUSION MONTE CARLO METHOD; REACTOR LATTICES; CYLINDRICAL CONFIGURATION; ONE-GROUP THEORY

---

### **Multivariate data analysis based on calculation results of nuclear transmutation in zirconium alloys**

**S97**

*Belozerova, A.R.; Belozerov, S.V.; Shamardin, V.K. (AO «NIIAR», Dimitrovgrad (RU))*

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Mnogomernyj analiz dannykh na osnove rezul'tatov raschetov yadernoj transmutatsii v  
tsirkonievyykh splavakh

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ZIRCONIUM ALLOYS; TRANSMUTATION; NIOBIUM ALLOYS; MOLYBDENUM  
ADDITIONS; PHYSICAL RADIATION EFFECTS; COMPUTER CALCULATIONS; DATA;  
MONTE CARLO METHOD

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## **Rainbow TB - a new generation of code to solve the transport equation**

**S97**

*Bass, L.P.; Nikolaeva, O.V.; Gajfulin, S.A. (IPM im. M.V. Keldysha RAN, Moscow (RU));*

*Davidenko, V.D.; Khmylev, A.N. (NITs «Kurchatovskij Inst.», Moscow (RU)); Danilov, A.A.*

*(IVM RAN, Moscow (RU))*

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p. 84

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MONTE CARLO METHOD; DETERMINISTIC ESTIMATION; COMPUTER CODES;  
REVIEWS; ALGORITHMS; BURNUP

---

**FRIGATE program for complex scenario calculation of the reactor and  
protection in group approximation: background of invention, organization  
structure, functional purpose**

**S97**

*Nikolaev, A.A. (AO OKB «GIDROPRESS», Podol'sk (RU))*

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Programma FRIGATE kompleksnogo stsenarijnogo rascheta reaktora i zashchity v gruppovom  
priblizhenii: predposylki sozdaniya, struktura organizatsii, funktsional'noe naznachenie  
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(RU)

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DETERMINISTIC ESTIMATION; F CODES; REACTOR KINETICS; REACTOR SAFETY;  
COMPUTER CALCULATIONS; VERIFICATION

---

## **Calculation of the thermal neutron flux density in radiation protection upon the FRIGATE program using the submodeling method**

**S97**

*Skobelev, A.N.; Nikolaev, A.A. (AO OKB «GIDROPRESS», Podol'sk (RU))*

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FRIGATE s primeneniem metoda submodelirovaniya  
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THERMAL NEUTRONS; FLUX DENSITY; RADIATION PROTECTION; MONTE CARLO  
METHOD; KINETIC EQUATIONS; SIMULATION; F CODES; COMPUTER  
CALCULATIONS

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## **The simulation results of the test task «BenchmarkRostov 2» using the software package SAPFIR<sub>9,5</sub>&RC<sub>W</sub>WER**

**S97**

*Artemov, V.G.; Artemova, L.M.; Korotaev, V.G.; Kuznetsov, A.N. (FGUP «NITI im. A.P. Aleksandrova», Sosnovyj Bor (RU))*

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Rezul'taty modelirovaniya testovoj zadachi «BenchmarkRostov 2» s ispol'zovaniem kompleksa  
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p. 87

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108 p.

WWER TYPE REACTORS; REACTOR CORES; BENCH-SCALE EXPERIMENTS; K  
CODES; MATHEMATICAL MODELS; S CODES; SIMULATION

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## **KBA parallelization method for computing neutron transport equations on unstructured grids**

**S97**

*Nikolaeva, O.V.; Gajfulin, S.A.; Bass, L.P. (IPM im. M.V. Keldysha RAN, Moscow (RU))*

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nestrukturirovannykh setkakh

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(RU)

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**Calculation of the reactivity effects and their errors in the SCALA-ROCOCO system**

**S97**

*Zherdev, G.M.; Teplukhina, E.S. (AO «GNTs RF–FEhI», Obninsk (RU))*

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p. 89-90

(RU)

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REACTOR CORES; REACTOR KINETICS; REACTIVITY; ALGORITHMS;

FUNCTIONALS; ERRORS; MONTE CARLO METHOD

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**CROSSER - software module for preparing group constants for engineering calculations of fast reactors**

**S22**

*Koshcheev, V.N.; Tormyshev, I.V.; Mishin, V.A.; Peregudov, A.A.; Raskach, K.F.; Semenov, M.Yu.; Yakunin, A.A. (AO «GNTs RF – Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))*

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CROSSER — programmnyj modul' podgotovki gruppyvykh konstant dlya inzhenernykh

raschetov bystrykh reaktorov

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(RU)

7 refs., 1 fig.

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VERIFICATION; DOPPLER COEFFICIENT; BREEDING RATIO; C CODES; FAST REACTORS; GROUP CONSTANTS; NUMERICAL ANALYSIS

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### **Experiments to study the temperature effect of reactivity in plutonium multiplying systems without a reflector**

**S73**

*Vajvod, A.A.; Besov, S.S.; Yudov, A.A.; Andreev, S.A. (FGUP «RFYaTs-VNIITF im. Akademika E.I. Zababakhina», Snezhinsk (RU))*

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p. 94

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PLUTONIUM; BENCH-SCALE EXPERIMENTS; TEMPERATURE COEFFICIENT; BREEDING RATIO; MONTE CARLO METHOD; P CODES; CORRELATIONS; CRITICALITY; NEUTRON REFLECTORS

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### **Time-of-flight measurements of neutrons with an energy of 14 MeV through lithium hydride layers**

**S73**

*Namakonov, V.V.; Andreev, S.A.; Gabbasov, D.M.; Moseeva, A.R.; Sergina, D.I. (FGUP «RFYaTs-VNIITF im. Akademika E.I. Zababakhina», Snezhinsk (RU))*

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LITHIUM CHLORIDES; TIME-OF-FLIGHT METHOD; NEUTRONS; MEV RANGE 10-100;  
NEUTRON SPECTRA; NEUTRON TRANSPORT

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### **Experiments to study the neutron transport through layers of lithium-7 hydride in a uranium breeding system using the method of neutron activation analysis**

**S73**

*Vajvod, A.A.; Yudov, A.A.; Besov, S.S.; Litvin, V.I.; Andreev, S.A. (FGUP «RFYaTs-VNIITF im. Akademika E.I. Zababakhina», Snezhinsk (RU))*

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Ehksperimenty po issledovaniyu prokhozheniya nejtronov cherez sloi gidrida litiya-7 v

uranovoj razmnozhayushchej sisteme s primeneniem metoda nejtronno-aktivatsionnogo analiza

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(RU)

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NEUTRON TRANSPORT; LITHIUM HYDRIDES; LITHIUM 7; NEUTRON ACTIVATION  
ANALYSIS; ERRORS; NEUTRON SPECTRA

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### **Current state of the GRUCON software package for evaluated nuclear data processing**

**S97**

*Sinitsa, V.V. (NITs «Kurchatovskij Inst.», Moscow (RU))*

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Sovremennoe sostoyanie paketa programm GRUCON dlya pererabotki otsenennykh yadernykh

dannykh

p. 96-98

(RU)

5 refs.

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DATA PROCESSING; VERIFICATION; MULTI-PARAMETER ANALYSIS; COMPUTER  
CODES; MANY-DIMENSIONAL CALCULATIONS; MATHEMATICS

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**On the stability of neutron matter and the possibility of its production. The problem of «zero elements» in the works of D.I. Mendeleev**

**S73**

*Ryazantsev, G.B.; Bekman, I.N.; Buntseva, I.M. (MGU imeni M.V. Lomonosova, Moscow (RU))*

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O stabil'nosti nejtronnogo veshchestva i vozmozhnosti ego polucheniya. Problema «nulevykh ehlementov» v rabotakh D.I. Mendeleeva

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PERIODIC SYSTEM; NUCLEAR MATTER; NONLUMINOUS MATTER; NUCLEAR  
PHYSICS; ELEMENTS; ATOMIC NUMBER

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**Using direct integrated essays with standardized spectrum for testing cross-sections of fission fragment capture**

**S21**

*Koshcheev, V.N.; Rozhikhin, E.V.; Yakunin, A.A. (AO «GNTs RF – Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))*

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Ispol'zovanie pryamykh integral'nykh testov so standartizovannym spektrom dlya testirovaniya secheniya zakhvata oskolkov deleniya

p. 100-101

(RU)

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FISSION PRODUCTS; DATA PROCESSING; VERIFICATION; NEUTRON SPECTRA; BN-1200 REACTOR; REACTION KINETICS

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## **Collection of abstracts of IX Annual conference of the Nanotechnological Society of Russia**

**S77**

Obshcherossijskaya Obshchestvennaya Organizatsiya «Nanotekhnologicheskoe Obshchestvo Rossii», Moscow (RU)

**IX Annual conference of Nanotechnological Society of Russia**

Moscow (RU)

5 Apr 2018

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Sbornik tezisev IX ezhegodnoj konferentsii Nanotekhnologicheskogo obshchestva Rossii

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LEADING ABSTRACT; MEETINGS; NANOCOMPOSITES; NANOELECTRONICS; NANOFILMS; NANOMATERIALS; NANOSTRUCTURES; NANOTECHNOLOGY; BIOTECHNOLOGY

In the book of abstracts there are the theses of the IX Annual conference of Nanotechnological Society of Russia which took place on the 05.04.2018 in Moscow. The consideration is given to the nanostructured metals and alloys and coatings on their base, nanocomposite polymers. The questions of nanotechnologies use in microelectronics, instrument engineering, fuel-and-energy complex as well as in biotechnology are also discussed

В сборнике представлены тезисы IX ежегодной конференции Нанотехнологического общества России, проходившей 05.04.2018 в Москве. Рассмотрены наноструктурированные металлы и сплавы и покрытия на их основе, нанокompозитные полимеры. Обсуждаются вопросы использования нанотехнологий в микроэлектронике, приборостроении, топливно-энергетическом комплексе, а также в биотехнологии

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**High integration of elements in logical and memory matrices of a neuroprocessor with the use of memristor-diode crossbar**

**S77**

*Udovichenko, S.Yu.; Pisarev, A.D.; Busygin, A.N.; Bobylev, A.N. (Tyumenskij Gosudarstvennyj Univ., Tyumen' (RU)), E-mail: udotgu@mail.ru*

**IX Annual conference of Nanotechnological Society of Russia**

Moscow (RU)

5 Apr 2018

IX ezhegodnaya konferentsiya Nanotekhnologicheskogo obshchestva Rossii

Vysokaya integratsiya ehlementov v logicheskoy i zapominayushchej matritsakh nejroprotsessora s pomoshch'yu kombinirovannogo memristorno–diodnogo krossbara

p. 6-7

(RU)

2 refs., 1 fig.

Obshcherossijskaya Obshchestvennaya Organizatsiya «Nanotekhnologicheskoe Obshchestvo Rossii», Moscow (RU)

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JUNCTION DIODES; NANOTECHNOLOGY; MEMORY DEVICES; MATRICES; THIN FILMS; LAYERS; TOPOLOGY

**Laser-induced formation of cone-shaped protrusions of relief on germanium in oxidizing atmosphere and vacuum. Dynamics of relief change**

**S77**

*Pestov, Yu.I.; Makin, V.S. (AO «NII OEhP», Sosnovyj Bor, Leningradskaya Obl. (RU)), E-mail: ypestov@yandex.ru*

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5 Apr 2018

IX ezhegodnaya konferentsiya Nanotekhnologicheskogo obshchestva Rossii

Lazerno-indutsirovannoe formirovanie konusoobraznykh vystupov rel'efa na germanii v okislitel'noj atmosfere i vakuume. Dinamika izmeneniya rel'efa

p. 8-9

(RU)

1 fig., 2 refs.

Obshcherossijskaya Obshchestvennaya Organizatsiya «Nanotekhnologicheskoe Obshchestvo Rossii», Moscow (RU)

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**Matrix radiation detectors from scintillation nanofibers for X-ray microscopy**  
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*Pokidov, A.P.; Klassen, N.V. (Inst. Fiziki Tverdogo Tela, Chernogolovka (RU)), E-mail: pokidov@issp.ac.ru*

**IX Annual conference of Nanotechnological Society of Russia**

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5 Apr 2018

IX ezhegodnaya konferentsiya Nanotekhnologicheskogo obshchestva Rossii

Matrichnye radiatsionnye detektory iz stintillyatsionnykh nanovolokon dlya rentgenovskoy mikroskopii

p. 10-11

(RU)

Obshcherossiyskaya Obshchestvennaya Organizatsiya «Nanotekhnologicheskoe Obshchestvo Rossii», Moscow (RU)

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NANOFIBERS; PHOSPHORS; NANOPARTICLES; EFFICIENCY; LUMINESCENCE; X RADIATION

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**Development of nanoscale measuring system**

**S77**

*Akhanova, N.E.; Gabdullin, M.T.; Zhelkobaev, Zh.E.; Batryshev, D.G.; Erlanuly, E. (Kazakhsko-Britanskij Univ., Almaty (KZ)), E-mail: nazym@physics.kz*

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Razrabotka sistemy izmereniya v nanodiapazone

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NANOTECHNOLOGY; NANOSTRUCTURES; DIMENSIONS; MEASURING METHODS; LASER RADIATION; INTERFEROMETERS; WAVELENGTHS

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## Technology of formation of nanoscale low-diverging fluxes of X-ray quasi-monochromic radiation

S77

Egorov, V.K. (*Inst. Problem Tekhnologii Mikroelektroniki RAN, Chernogolovka (RU)*); Egorov, E.V. (*Inst. Problem Tekhnologii Mikroelektroniki RAN, Chernogolovka (RU)*); Rossijskij Univ. Druzhby Narodov, Moscow (RU)); Len', A.N. (*Rossijskij Univ. Druzhby Narodov, Moscow (RU)*), E-mail: egorov-iptm@mail.ru

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Tekhnologiya formirovaniya nanorazmernykh maloraskhodyashchikhsya potokov  
rentgenovskogo kvazimonokhromaticheskogo izlucheniya

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X RADIATION; MICROSCOPY; NANOTECHNOLOGY; RESONATORS; X-RAY  
DIFFRACTION; LIOUVILLE THEOREM; MONOCHROMATIC RADIATION

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## Electroexplosion coatings of high-current electric contacts of powerful electrical networks

S36;S77

Romanov, D.A.; Gromov, V.E. (*Sibirskij Gosudarstvennyj Industrial'nyj Univ., Novokuznetsk (RU)*), E-mail: romanov\_da@physics.sibsiu.ru

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Ehlektrovzryvnye pokrytiya sil'notochnykh ehlektricheskikh kontaktov moshchnykh  
ehlektricheskikh setej

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### **Preparation of copper nanoparticles in plasma of combined HF+DC discharge** **S77**

*Zhunisbekov, A.T.; Zhumadilov, R.E.; Ramazanov, T.S. (Inst. Eksperimental'noj i Teoreticheskoy Fiziki, Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ)); Orazbaev, S.A.; Gabdullin, M.T. (Inst. Eksperimental'noj i Teoreticheskoy Fiziki, Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ); Natsional'naya Nanotekhnologicheskaya Lab. Otkrytogo Tipa, Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ)), E-mail: a.zhunisbekov@physics.kz*

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Poluchenie nanochastits medi v plazme kombinirovannogo VCh+DC razryada  
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### **Effect pulsed current treatment on the structure of technically pure titanium at fatigue cyclic deformation**

**S77**

*Komissarova, I.A.; Kosinov, D.A.; Gromov, V.E. (Sibirskij Gosudarstvennyj Industrial'nyj Univ., Novokuznetsk (RU)); Konovalov, S.V.; Kryukova, E.D. (Samarskij Natsional'nyj Issledovatel'skij Univ. im. Akademika S.P. Koroleva, Samara (RU)); Ivanov, Yu.F. (Inst. Sil'notochnoj Ehlektroniki SORAN, Tomsk (RU)), E-mail: i.r.i.ss@yandex.ru, ksv@ssau.ru, yufi55@mail.ru*

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Vliyanie tokovoj impul'snoj obrabotki na strukturu tekhnicheskhi chistogo titana pri ustalostnom tsiklicheskom deformirovanii

p. 27-28

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### **Change of copper nanopowder lattice parameter under the action of pulsed electron beam of great energy**

**S77**

*Nakysbekov, Zh.T.; Buranbaev, M.Zh.; Ajtzhhanov, M.B. (Kazakhskij Natsional'nyj Univ. imeni Al'-Farabi, Almaty (KZ)); Gabdullin, M.T. (Kazakhskij Natsional'nyj Univ. imeni Al'-Farabi, Almaty (KZ); Kazakhstansko-Britanskij Tekhnicheskij Univ., Almaty (KZ)), E-mail:*

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Izmenenie parametra reshetki nanoporoshka medi pod dejstviem impul'snogo ehlektronnogo puchka bol'shoj ehnergii

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COPPER; NANOPOWDERS; ELECTRON BEAMS; LATTICE PARAMETERS; X-RAY DIFFRACTION

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### **Metal composite materials reinforced by nanostructural carbon particles obtained from fullerenes under pressure**

**S77**

*Drozдова, E.I.; Lukina, I.N.; Chernogorova, O.P. (Uchrezhdenie Rossijskoj Akademii Nauk Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)); Ekimov, E.A.*

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Metallicheskie kompozitsionnye materialy, armirovannye nanostrukturnymi uglerodnymi  
chastitsami, poluchennymi iz fullerenov pod davleniem

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REINFORCED MATERIALS; FULLERENES; WEAR RESISTANCE; ELASTICITY

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**Nanostructured gradient coating on the base of tungsten carbide in carbon steel  
S77**

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Nanostrukturirovannoe gradientnoe pokrytie na osnove karbida vol'frama v uglerodistoj stali

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TREATMENTS; DOPED MATERIALS; REINFORCED MATERIALS;  
NANOSTRUCTURES; AUSTENITE; CRYSTAL STRUCTURE

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**Detection of oscillating processes in kinetics of steels damage as a mark of  
nanostructure self-organization at neutron irradiation**

**S36;S22;S77**

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Obnaruzhenie kolebatel'nykh protsessov v kinetike povrezhdeniya stalej kak priznaka

samoorganizatsii nanostrukturnykh pri nejtronnom obluchenii

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NANOSTRUCTURES; EMBRITTLEMENT; SELF-SHIELDING; OSCILLATIONS;

PHYSICAL RADIATION EFFECTS; STEELS; STABILITY

---

**Structure of stainless steel after the action of pulsed plasma flow**

**S77**

*Zhukeshov, A.M.; Gabdullina, A.T.; Mukhamedryskyzy, M. (Natsional'naya*

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Struktura nerzhavayushchej stali posle vozdejstviya impul'snykh plazmennyykh potokov

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PLASMA; SURFACES; SURFACE PROPERTIES; NANOSTRUCTURES; IRON NITRIDES;

HARDNESS; PULSES

---

**Structural and phase stability of gradient nanostructural coating on monocrystalline nickel alloys**

**S36;S77**

*Kuznetsov, V.P.; Popov, N.A. (Ural'skij Federal'nyj Univ. imeni Pervogo Prezidenta Rossii B.N.*

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monokristallicheskih nikelovykh splavakh

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ALLOYS; PROTECTIVE COATINGS; PHASE STABILITY; CRYSTAL STRUCTURE;  
NANOSTRUCTURES; TEMPERATURE RANGE 1000-4000 K; CRYSTAL-PHASE  
TRANSFORMATIONS

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**Improving nanostructuring of crystals by ball rolling out**

**S77**

*Klassen, N.V.; Klassen, E.N. (Inst. Fiziki Tverdogo Tela RAN, Chernigolovka (RU)), E-mail:  
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Uluchshayushchee nanostrukturirovanie kristallov sharikovej obkatkoj

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MATERIALS; CORROSION PROTECTION

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**Formation of nanodimensional carbide phase during long-term exploitation of  
100-m differentially hardened rails**

**S77**

*Gromov, V.E.; Yur'ev, A.A.; Rubannikova, Yu.A. (Sibirskij Gosudarstvennyj Industrial'nyj Univ., Novokuznetsk (RU)); Ivanov, Yu.F. (Inst. Sil'notochnoj Ehlektroniki SORAN, Tomsk (RU)), E-mail: gromov@physics.sibsiu.ru*

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Formirovanie nanorazmernoj karbidnoj fazy pri dlitel'noj ehkspluatatsii 100-m  
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STRUCTURE; OPERATION; DEFORMATION; DIFFUSION; CEMENTITE;  
NANOSTRUCTURES

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**Antiicing-antiadhesive nanofilms**

**S77**

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Antioledenitel'no-antiadgezijnye nanoplenki

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RESISTANCE; NANOSTRUCTURES; SURFACES

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**Scientific discoveries in the field of micro-nano-pico-femto and attotribology - the  
phenomenon of biocomputer technologies. Sherrington and synapses**



**S77**

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Nauchnye otkrytiya v oblasti mikro-nano-piko-femto- i attotribologii – fenomen  
biokomp'yuternykh tekhnologij. Sherrington i sinapsy

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TRIBOLOGY; NANOSTRUCTURES; BRAIN; COMPUTERS

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**Influence of the method of synthesis of biocompatible magnetic nanoliquids on  
parameters of nanoparticle aggregates**

**S77**

*Shulenina, A.V. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU);  
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Vliyanie sposoba sinteza biosovmestimykh magnitnykh nanozhidkостей na parametry agregatov  
nanochastits

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### **Investigation of acustoplasma discharge as the method of optically active materials synthesis**

**S77**

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Issledovanie akustoplazmennogo razryada kak metoda sinteza opticheski aktivnykh materialov  
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### **Quantum technologies of intellectual materials**

**S71**

*Beznosyuk, S.A.; Maslova, O.A. (Altajskij Gosudarstvennyj Univ., Barnaul (RU)); Zhukovskij, M.S. (Altajskij Gosudarstvennyj Tekhnicheskij Univ., Barnaul (RU)), E-mail: bsa1953@mail.ru*

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Kvantovye tekhnologij intellektual'nykh materialov

p. 51-52

(RU)

6 refs.

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130 p.  
QUANTUM ELECTRODYNAMICS; SPACE-TIME; MATERIALS; QUANTUM  
CHROMODYNAMICS; NANOMATERIALS

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### **Magnetic control of the rate and geometry of chemical reactions**

**S77;S36**

*Klassen, N.V. (Inst. Fiziki Tverdogo Tela RAN, Chernogolovka (RU)); Burova, D.N. (Fiziko-Matematicheskij Litsej, Sergiev Posad (RU)), E-mail: darya5401@gmail.com*

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Magnitnoe regulirovanie skorosti i geometrii khimicheskikh reaktsij

p. 53-54

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LOW ALLOY STEELS; COPPER SULFATES; CHEMICAL REACTIONS; MAGNETIC  
FIELDS; AQUEOUS SOLUTIONS; PERMANENT MAGNETS; NANOPARTICLES

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### **Mechanism of femtosecond laser nanostructuring of nonlinear lithium niobate crystal**

**S77**

*Makin, V.S. (AO NII Optiko-Ehlektronnogo Priborostroeniya, Sosnovyj Bor (RU)); Makin, R.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: makinvs@nioep.ru*

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Mekhanizm femtosekundnogo lazernogo nanostrukturirovaniya nelinejnogo kristalla niobata litiya

p. 55-56

(RU)

6 refs., 1 fig.

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LITHIUM COMPOUNDS; NIOBATES; CRYSTAL STRUCTURE; LASER RADIATION;  
NANOSTRUCTURES; SURFACES; VOLUME; CRYSTAL DEFECTS

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### **Sodium dodecyl sulfate microemulsion as a functional nanomaterial for metals extraction**

**S77**

*Polyakova, A.S.; Tyulyagin, P.E.; Fedorov, D.A.; Murashova, N.M.; Yurtov, E.V. (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: anast.polya@gmail.com*

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Mikroehmul'siya dodetsilsul'fata natriya kak funktsional'nyj nanomaterial dlya izvlecheniya metallov

p. 59-60

(RU)

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### **Directed synthesis of vanadium dioxide nanoparticles with preset properties in hydrothermal conditions**

**S77**

*Osmolovskaya, O.M.; Petukhova, Yu.V.; Mosyagin, I.P.; Mezenov, Yu.A.; Bobrysheva, N.P.; Levin, O.V.; Osmolovskij, M.G. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)), E-mail: o\_osmolovskaya@mail.ru*

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Napravlenyj sintez nanochastits dioksida vanadiya s zadannymi svojstvami v gidrotermal'nykh usloviyakh

p. 61-62

(RU)

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VANADIUM OXIDES; CRYSTAL STRUCTURE; CRYSTAL GROWTH;

NANOMATERIALS; DISPERSIONS; NANOPARTICLES; CHEMICAL PREPARATION;

MONOCLINIC LATTICES; TETRAGONAL LATTICES; COLOR; LAYERS; ACRYLATES

---

### **Formation of nanolattices during filamentation of femtosecond radiation in condensed media at the expense to interference of cylindrical surface plasmon polaritons**

**S77**

*Makin, V.S. (AO NII Optiko-Ehlektronnogo Priborostroeniya, Sosnovyj Bor (RU)); Makin, R.S.*

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Образование nanoreshetok pri filamentatsii femtosekundnogo izlucheniya v kondensirovannykh sredakh za schet interferentsii tsilindricheskikh poverkhnostnykh plazmon polyaritonov

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(RU)

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LASER RADIATION; PULSED IRRADIATION; PLASMONS; POLARONS;

INTERFERENCE; CRYSTALS; QUARTZ; GLASS; NANOSTRUCTURES; CRYSTAL

LATTICES

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### **Sonification of transport properties of single-layer carbon nanotubes based on technological errors**

**S77**

*Zinchenko, L.A.; Shakhnov, V.A.; Tyutin, A. K. (Moskovskij Gosudarstvennyj Tekhnicheskij*

*Univ. im. N.Eh. Baumana, Moscow (RU)), E-mail: lyudmillaa@mail.ru*

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Sonifikatsiya transportnykh svoystv odnoslojnykh uglerodnykh nanotrubok s uchetom tekhnologicheskikh pogreshnostej

p. 65-66

(RU)

2 refs.

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130 p.

CARBON NANOTUBES; SOUND WAVES; AMPLITUDES; ELECTRIC CONDUCTIVITY; COMPARATIVE EVALUATIONS; COMPUTER CODES

---

## **Effect of magnetic nanoparticles on pore size of highly porous copolymer of styrene and divinylbenzene**

**S77**

*Shirokikh, S.A.; Rakitin, A.I.; Khasanova, L.Kh.; Koroleva, M.Yu.; Yurtov, E.V. (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: serega-teo@mail.ru*

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Vliyanie kontsentratsii magnitnykh nanochastits na razmer por vysokoporistogo sopolimera stirola i divinilbenzola

p. 67-69

(RU)

5 refs., 1 fig., 1 tab.

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ORGANIC POLYMERS; EMULSIONS; POROUS MATERIALS; NANOPARTICLES; POLYMERIZATION; ELECTRON MICROSCOPY; STYRENE; DIVINYLBENZENE; IRON OXIDES

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## **Nanostructural materials on the base of natural polysaccharides of**

## **polyfunctional purpose**

**S77**

*Voropaeva, N.L.; Chesnokova, L.D.; Belonozhkina, T.G.; Manaenkov, S.I.; Gorshkova, Eh.K.; Gorshkov, V.I.; Sibirnaya, L.; Sibirnyj, D.V.; Karpachev, V.V. (FGBNU VNII Rapsa, Lipetsk (RU)); Figovskij, O.L. (R&D of Asteros, Ltd. of NTI Inc., Washington, District of Columbia (US)), E-mail: bionanotex\_1@mail.ru*

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Nanostrukturnye materialy na osnove prirodnikh polisakharidov polifunktsional'nogo  
naznacheniya

p. 69-70

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CROPS

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## **Nanostructural materials on the base of furfuryl copolymer**

**S37;S77**

*Efremov, S.A.; Kishibaev, K.K.; Kabulov, A.T. (Tsentri Fiziko-Khimicheskikh Metodov  
Issledovaniya i Analiza Kazakhskogo Natsional'nogo Univ. imeni Al'-Farabi (TsFKhMA),  
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Nanostrukturnye materialy na osnove sopolimera furfurola

p. 71-72

(RU)

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COPOLYMERS; NANOSTRUCTURES; NMR SPECTRA; THERMAL GRAVIMETRIC  
ANALYSIS; POLYESTERS; MOLECULAR STRUCTURE

---

## **Preparation of solid lipid particles of glyceryl tristearate stabilized by Tween 60 and Span 60**

**S77**

*Aistova, A.A.; Gorbachevskij, O.S.; Koroleva, M.Yu.; Yurtov, E.V. (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: ann96pri@mail.ru*

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Poluchenie tverdykh lipidnykh chastits tristearata glitserina, stabilizirovannykh Tween 60 i Span 60

p. 73-74

(RU)

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DRUGS; EMULSIONS; SURFACTANTS; CONCENTRATION RATIO; DISTRIBUTION  
FUNCTIONS

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## **Resistance of nanoemulsions stabilized by Tween 60 and Span 60**

**S77**

*Gorbachevskij, O.S.; Shumova, E.A.; Novopol'tseva, T.S.; Koroleva, M.Yu.; Yurtov, E.V. (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: osgorbachevski@gmail.com*

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Ustojchivost' nanoemul'sij, stabilizirovannykh Tween 60 i Span 60

p. 75-76

(RU)

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NANOMATERIALS; DRUGS; EMULSIONS; SURFACTANTS; DISTRIBUTION  
FUNCTIONS; TIME DEPENDENCE; STABILITY

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### **Phase transitions in nanoemulsions**

**S77**

*Kur'yakov, V.N. (Inst. Problem Nefti i Gaza RAN, Moscow (RU)); Ivanova, D.D. (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: vladimir.kuryakov@ipng.ru*

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Fazovye perekhody v nanoemul'siyakh

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NANOMATERIALS; EMULSIONS; PARAFFIN; FILTRATION; LIGHT SCATTERING;  
PHASE TRANSFORMATIONS; NANOPARTICLES

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### **Search of compromise decisions at macro-criterial optimization of fine-grainy compositions of fibro-concretes when using of carbon nano-modifiers**

**S77**

*Nizina, T.A.; Balykov, A.S.; Korovkin, D.I.; Volodin, V.V. (FGBOU VO «MGU im. N.P. Ogareva», Saransk (RU)); Ponomarev, A.N. (FBOU VPO SPbGPU, Sankt-Peterburg (RU)), E-mail: nizinata@yandex.ru*

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Poisk kompromissnykh reshenij pri mnogokriterial'noj optimizatsii sostavov melkozernistykh fibrobetonov s primeneniem uglerodnykh nanomodifikatorov

p. 79-81

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CONCRETES; NANOPARTICLES; MODIFICATIONS; MECHANICAL PROPERTIES;  
DISPERSIONS; FIBERS; SILICA; KAOLIN; CONCENTRATION RATIO

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### **Biological efficiency of rape seeds treatment by metal nanopowders before sowing**

**S77**

*Polishchuk, S.D.; Churilova, V.V.; Nazarova, A.A.; Churilov, D.G. (Ryazanskij Gosudarstvennyj Agrotekhnologicheskij Univ. imeni P.A. Kostycheva, Ryazan' (RU)), E-mail: svpolishuk@mail.ru*

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Biologicheskaya ehffektivnost' obrabotok semyan rapsa pered posevom nanoporoshkami metallov

p. 82-83

(RU)

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BRASSICA; NANOPOWDERS; NANOSTRUCTURES; REPRODUCTION; CROPS;  
EFFICIENCY

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### **Effect of nanomaterials on rat liver protherm**

**S77**

*Gmoshinskij, I.V.; Shipelin, V.A.; Kudan, P.V.; Khotimchenko, S.A. (FGBUN «FITs Pitaniya i Biotekhnologii, Moscow (RU)), E-mail: gmosh@ion.ru*

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Vliyanie nanomaterialov na proteom pecheni krysa

p. 84-85

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BIOCHEMISTRY; MORPHOLOGY; SILICON OXIDES; PROTEINS; CELL MEMBRANES;  
SILVER

---

### **Effect of nanoparticles on animals**

**S77;S63**

*Churilov, G.I.; Ivanycheva, Yu.N.; Obidina, I.V. (Ryazanskij Gosudarstvennyj Meditsinskij Univ. imeni Akademika I.P. Pavlova, Ryazan' (RU)); Nazarova, A.A. (Ryazanskij Gosudarstvennyj Agrotekhnologicheskij Univ. imeni P.A. Kostycheva, Ryazan' (RU)), E-mail: genchurilov@yandex.ru*

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SUSPENSIONS; TOXICITY; LIVER; PRODUCTIVITY; LIPIDS; COWS; ANIMAL FEEDS

---

### **Impact of single-wall carbon nanotubes on the rats body at oral intake**

**S77**

*Shipelin, V.A.; Gmoshinskij, I.V.; Riger, N.A.; Khotimchenko, S.A. (FGBUN «FITs Pitaniya i Biotekhnologii, Moscow (RU)), E-mail: gmosh@ion.ru*

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Vozdejstvie odnostennykh uglerodnykh nanotrubok na organizm krysa pri peroral'nom postuplenii

p. 88-89

(RU)

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NANOTUBES; CARBON; POLLUTION; RATS; WATER; BIOLOGY; BLOOD PLASMA;  
URIC ACID; COMPARATIVE EVALUATIONS; BIOCHEMISTRY

---

**Aqueous sols of hydrothermal nanosilicon, yield of various crops and its quality**  
**S77**

*Zelenkov, V.N.; Petrichenko, V.N.; Chugunov, Yu.V. (FGBNU VNII Ovoshchevodstva, d. Vereya Ramenskogo Rajona Moskovskoj Obl. (RU)), E-mail: bionanotex\_1@mail.ru (and others)*

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Vodnye zoli gidrotermal'nogo nanokremnezema, urozhajnost' razlichnykh kul'tur i ego kachestvo  
p. 90-91

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SEEDS; PRODUCTIVITY; NANOPARTICLES; SILICON OXIDES; PHOTOSYNTHESIS;  
GELS; CULTIVATION TECHNIQUES

---

**Hydrothermal nanosilicon and problems of animal husbandry**

**S77**

*Lapin, A.A.; Chugunov, Yu.V.; Govorkova, L.K.; Kalajda, M.L. (FGBOU VPO Kazanskij Gosudarstvennyj Ehnergeticheskij Univ., Kazan' (RU)); Potapov, V.V. (FGBNU Nauchno-Issledovatel'skij Geotekhnologicheskij Tsentri DVO RAN, Petropavlovsk-Kamchatskij (RU)); Sivashenko, V.A. (FGBNU VNII Sel'skogo Khozyajstva, p. Sosnovka, Kamchatskij Kraj (RU)); Zelenkov, V.N. (FGBNU VNII Ovoshchevodstva, d. Vereya Ramenskogo Rajona Moskovskoj Obl. (RU)); Voropaeva, N.L.; Karpachev, V.V. (FGBNU VNII Rapsa, Lipetsk (RU)), E-mail: bionanotex\_1@mail.ru*

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IX ezhegodnaya konferentsiya Nanotekhnologicheskogo obshchestva Rossii

Gidrotermal'nyj nanokremnezem i problemy zhivotnovodstva

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NANOMATERIALS; NANOPARTICLES; DISPERSIONS; DAPHNIA; TOXICITY;  
ECOLOGY; FOOD ADDITIVES; COWS; COMPARATIVE EVALUATIONS

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### **Accumulation dynamics of pollutants and essential elements during the process of plant growth and development**

**S77**

*Churilov, D.G.; Polishchuk, S.D. (Ryazanskij Gosudarstvennyj Agrotekhnologicheskij Univ. imeni P.A. Kostycheva, Ryazan' (RU)); Churilov, G.I. (Ryazanskij Gosudarstvennyj Meditsinskij Univ. imeni Akademika I.P. Pavlova, Ryazan' (RU)), E-mail: churilov.dmitry@yandex.ru*

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Dinamika akkumulyatsii polyutantov i ehssentsial'nykh ehlementov v protsesse rosta i razvitiya rastenij

p. 94-95

(RU)

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NANOMATERIALS; POLLUTANTS; SOLUBILITY; COPPER; IRON; COBALT; PLANT GROWTH; METABOLISM; MAIZE; WHEAT; COMPARATIVE EVALUATIONS

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### **Research of properties and antimicrobial activity of microencapsulated 4,5-dichloro-2-N-octyl-4-isotriazoline-3-on against biofouling**

**S77**

*Ajdarova, S.B. (Kazakhskij Natsional'nyj Issledovatel'skij Tekhnicheskij Univ. im. K.I. Satpaeva, Almaty (KZ); Kazakhstansko-Britanskij Tekhnicheskij Univ., Almaty (KZ)); Isaeva, A.B.; Sharipova, A.A. (Kazakhskij Natsional'nyj Issledovatel'skij Tekhnicheskij Univ. im. K.I. Satpaeva, Almaty (KZ)); Ibrashev, K.N.; Gabdullin, M.T.; Grigor'ev, D. (Kazakhstansko-Britanskij Tekhnicheskij Univ., Almaty (KZ)), E-mail: ainano9999@gmail.com*

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Issledovanie svojstv i antimikrobnoj aktivnosti mikroinkapsulirovannogo 4,5-dikhlor-2-N-oktil-4-izotriazol-3-on protiv bioobrastaniya

p. 98-99

(RU)

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NANOMATERIALS; NANOPARTICLES; DISPERSIONS; CONTAINERS; LIGHT SCATTERING; SILICON OXIDES; MICROORGANISMS

---

### **Correlation of nano-processes in plant nutrition an energetics**

**S77**

*Klassen, N.V. (Inst. Fiziki Tverdogo Tela RAN, Chernogolovka (RU)); Kudinova, A.A. (Fiziko-Matematicheskij Litsej, Sergiev Posad (RU)), E-mail: annushku@gmail.co*

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Korrelyatsii nanoprotsessov v pitanii i ehnergetike rastenij

p. 99-101

(RU)

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NANOPARTICLES; AQUEOUS SOLUTIONS; ALTERNATING CURRENT; NANO AMP BEAM CURRENTS; RESONANCE; CORRELATIONS; ELECTRIC FIELDS; LEAVES; LASER RADIATION; CHLOROPHYLL

---

### **Nanomaterials obtained from primary wastes of oil cabbage cultures with detoxification activity**

**S77**

*Voropaeva, N.L.; Karpachev, V.V. (FGBNU VNII Rapsa, Lipetsk (RU)); Bogdanovich, N.I.; Khvayuzova, K. (Severnyj Arkticheskij Federal'nyj Univ. SAFU, Arkhangel'sk (RU)); Mukhin, V.M. (OAO «EhNPO «Neorganika», Ehlektrostal' (RU)); Spiridonov, Yu.Ya.; Glinushkin, A.P. (FGBNU VNII Fitopatologii, Bol'shie Vyazemy (RU)), E-mail: bionanotex\_l@mail.ru*

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Nanomaterialy, poluchennye iz pervichnykh otkhodov maslichnykh kapustnykh kul'tur, s

detoksikatsionnoj aktivnost'yu

p. 101-103

(RU)

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NANOMATERIALS; CARBON; BRASSICA; AGRICULTURAL WASTES; ADSORBENTS; METHYLENE BLUE; SPECIFIC SURFACE AREA; SEEDS; CULTIVATION TECHNIQUES

---

### **Preparations on nanocarriers and ecological safety of agrosystems**

**S77**

*Bredikhina, O.; Nikonova, G.N. (FGBOU VO LGPU, Lipetsk (RU)); Voropaeva, N.L.;*

*Karpachev, V.V. (FGBNU VNII Rapsa, Lipetsk (RU)), E-mail: bionanotex\_1@mail.ru*

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Preparaty na nanonositelyakh i ehkologicheskaya bezopasnost' agrosistem

p. 104-105

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NANOMATERIALS; BRASSICA; AGRICULTURE; ECOLOGY; ADDITIVES; NANOPARTICLES

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### **Development of scaffolds on the base of bacterial cellulose synthesized by *Gluconacetobacter hansenii* producer: estimation of physico-mechanical properties and cytotoxicity**

**S77**

*Gromovykh, T.I.; Lyundup, A.V.; Butnaru, D.V.; Timashev, P.S.; Fel'dman, N.B.; Demchenko,*

*A.K.; Churbanov, S.N.; Lutsenko, S.V. (FGABOU VO Pervyj Moskovskij Gosudarstvennyj*

*Meditsinskij Univ. imeni I.M. Sechenova (Sechenovskij Univ.), Moscow (RU)); Cheremnykh,*

*E.G. (FGBNU «Nauchnyj Tsentr Psikhicheskogo Zdorov'ya», Moscow (RU)), E-mail:*

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Razrabotka skaffoldov na osnove bakterial'noj tsellyulozy, sinteziruemoj produtsentom  
Gluconacetobacter hansenii: otsenka fiziko-mekhanicheskikh svoystv i tsitotoksichnosti  
p. 107-109

(RU)

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CELLULOSE; BACTERIA; NANOMATERIALS; COMPARATIVE EVALUATIONS;  
FLEXURAL STRENGTH; TENSILE PROPERTIES; POROSITY; SURFACE AREA;  
SORPTIVE PROPERTIES; DRUGS; BIOSYNTHESIS; ABSORPTION SPECTROSCOPY;  
TOXICITY; THIN FILMS; NANOSTRUCTURES

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## **Synthesis of biocompatible polymer microcapsules with hydroxyapatite nanoparticles**

**S77**

*Karakatenko, E.Yu.; Iglin, N.G.; Mishchenko, E.A.; Koroleva, M.Yu.; Yurtov, E.V. (Rossijskij  
Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail:  
eyrfad@gmail.com*

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Sintez biosovmestimykh polimernykh mikrokapsul s nanochastitsami gidroksiapatita  
p. 109-111

(RU)

5 refs., 2 figs.

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APATITES; NANOPARTICLES; ORGANIC COMPOUNDS; BIODEGRADATION; DRUGS;  
PARTICLE SIZE; EMULSIONS; CARRIERS

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## **Study of U-10%Zr metal fuel for power reactor facilities**

**S21**

*Kurina, I.S.; Ryabyj, V.M.; Frolova, M.Yu.; Plaksin, O.A.; Dvoryashin, A.M. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: kourina@ippe.ru*

Issledovanie metallichesкого топлива U-10%Zr dlya yaderno-ehnergeticheskikh ustanovok  
p. 5-13

(RU)

18 refs., 6 figs., 2 tabs.

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NUCLEAR FACILITIES; FUELS; FUEL ASSEMBLIES; CASTING; URANIUM ALLOYS;  
ZIRCONIUM BASE ALLOYS

The paper presents an analysis of foreign works devoted to methods of manufacturing a metal uranium-zirconium alloy. The use of foreign experience will be useful in carrying out further work on the manufacture of metal fuel. The U-10%Zr alloy samples were manufactured, and its main properties have been studied

В работе представлен анализ зарубежных работ, посвященных способам изготовления металлического уран-циркониевого сплава. Использование зарубежного опыта будет полезным при выполнении дальнейших работ по изготовлению металлического топлива. Проведены работы по изготовлению образцов сплава U-10%Zr и исследованы основные его свойства

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## **Computational analysis of the impact action in the design of the tooling for equipment testing**

**S21;S97**

*Vilenskij, O.Yu.; Dushev, S.A.; Lapshin, D.A.; Lebedeva, Ya.Yu. (Aksionernoe Obshchestvo «Opytnoe Konstruktorskoe Byuro Mashinostroeniya imeni I.I. Afrikantova», Nizhnij Novgorod (RU)), E-mail: okbm@okbm.nnov.ru*

Raschetnyj analiz udarnykh vozdeystvij pri proektirovanii osnastki dlya ispytaniy oborudovaniya  
p. 14-29

(RU)

18 refs., 17 figs.

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NUCLEAR POWER; EQUIPMENT; IMPACT TESTS; VERIFICATION; COMPUTERIZED SIMULATION; COMPUTER CODES

The authors describe the state-of-the-art approaches to solving the problems associated with impact testing of the equipment under development at the design stage. A brief description of an experimental facility that simulates in different directions the impact loads equivalent to the effect of a blast wave arising near the object is also presented

В работе показаны современные подходы к решению задач, связанных с ударными испытаниями разрабатываемого оборудования на этапе проектирования. Дано краткое описание экспериментальной установки, моделирующей ударные нагрузки в разных

направлениях, эквивалентные воздействию взрывной волны, возникающей рядом с объектом

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## **SCWR development from concept to test reactor**

**S21**

*Glebov, A.P.; Baranaev, Yu.D.; Moskovchenko, I.V.; Kirillov, P.L. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: glebov@ippe.ru*

Razvitie napravleniya SCWR ot kontseptsii do testovogo reaktora

p. 30-44

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22 refs., 5 figs., 3 tabs.

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**NUCLEAR POWER; WATER COOLED REACTORS; TEST REACTORS; MIXED OXIDE FUELS; SPENT FUELS; COMPUTERIZED SIMULATION**

The paper describes the SCWR reactor, an innovative nuclear reactor cooled by supercritical pressure water, which is accepted as one of the promising reactors of the fourth generation at the Generation IV International Forum. The SCWR concept is based on the implementation of a direct-flow single-circuit scheme of a nuclear installation cooled by supercritical pressure water

В работе описан инновационный ядерный реактор, охлаждаемый водой сверхкритического давления (СКД) - SCWR (Supercritical Water-Cooled Reactor), который принят в качестве одного из перспективных реакторов IV поколения в рамках Международного форума «Поколение-IV». Концепция SCWR основывается на реализации прямоточной одноконтурной схемы ядерной установки, охлаждаемой водой СКД

---

## **Multi-criteria assessment of competitiveness of the BN-type commercial power unit in the Russian energy system**

**S21**

*Alekseev, P.N.; Blandinskij, V.Yu.; Balanin, A.L. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: marova@okbm.nnov.ru (and others)*

Mnogofaktornaya otsenka konkurentosposobnosti kommercheskogo ehnergloboka tipa BN v sisteme ehnergetiki Rossii

p. 45-61

(RU)

13 refs., 9 figs., 1 tab.

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NUCLEAR POWER; WWER TYPE REACTORS; FAST REACTORS; BN-1200 REACTOR; MIXED OXIDE FUELS; SPENT FUELS; ECONOMIC DEVELOPMENT; COMPUTER CODES

The paper presents the results of the development and application of multi-criteria decision analysis that combines promising approaches to a comprehensive assessment of technical, economic, resource, environmental, infrastructural and other indicators with a scenario-dynamic consideration of options for constructing a system of energy sources, and takes into account world practices of such assessments

В работе представлены результаты разработки и применения многокритериального анализа решений, объединяющего перспективные подходы к комплексной оценке технико-экономических, ресурсных, экологических, инфраструктурных и других показателей, включающего сценарно-динамическое рассмотрение вариантов построения системы энергоисточников и учитывающего мировые практики подобных оценок

---

### **Comparison of the influence factors for the calculation currents of the ionization chamber for the reactor RP V-392M (VVER-1200), calculated in various ways** S21

*Kulikov, V.I. (Sankt-Peterburgskij Filial Aktsionernogo Obshchestva «Federal'nyj Tsentr Nauki i Vysokikh Tekhnologij «Spetsial'noe Nauchno-Proizvodstvennoe Ob'edinenie «Ehleron» - «VNIPIEhT», Sankt-Peterburg (RU)); Semenova, T.V. (Federal'noe Gosudarstvennoe Unitarnoe Predpriyatie Rossijskij Federal'nyj Yadernyj Tsentr Vserossijskij Nauchno-Issledovatel'skij Inst. Eksperimental'noj Fiziki, Sarov (RU)); Zhylmaganbetov, N.M.; Popykin, A.I.; Smirnova, A.A. (Federal'noe Byudzhetnoe Uchrezhdenie «Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti», Moscow (RU)), E-mail: popykin@secnrs.ru*

Sravnenie koefitsientov vliyaniya dlya raschetov tokov ionizatsionnykh kamer dlya reaktora RU V-392M (VVEhR-1200), rasschitannykh razlichnymi sposobami

p. 62-70

(RU)

8 refs., 7 figs., 1 tab.

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NUCLEAR POWER; WWER TYPE REACTORS; NOVovoronezh-1 REACTOR; IONIZATION CHAMBERS; FUEL ASSEMBLIES; COMPUTERIZED SIMULATION

The article represents the results of calculations of the influence factors of fuel assemblies on the current of ionizing chambers (IC) in the simulation of a reaktimetr of reactor WWER. The influence factors of the extreme series of fuel assemblies nearest to the reflection shield and IC on the IC readings are calculated

В статье представлены результаты расчетов коэффициентов влияния тепловыделяющих сборок (ТВС) на ток ионизационных камер (ИК) при моделировании реактиметра реактора ВВЭР. Рассчитаны коэффициенты влияния крайнего ряда ТВС, ближайшего к выгородке и ИК, на показания ИК

## **Modelling of noise experiments for verification of kinetic parameters obtained using the SAPFIR<sub>R</sub>F code**

**S73;S97**

*Artemov, V.G.; Zinatullin, R.Eh.; Karpov, A.S. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU)), E-mail: elchine@niti.ru*  
Modelirovanie shumovykh ehksperimentov dlya verifikatsii parametrov kinetiki, poluchennykh po programme SAPFIR<sub>R</sub>F

p. 71-79

(RU)

10 refs., 3 figs., 4 tabs.

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REACTOR PHYSICS; RADIATION PROTECTION; DELAYED NEUTRONS; COMPUTER CODES; CALCULATION METHODS; MONTE CARLO METHOD; KINETICS

The paper presents the results of testing and verification of the calculated scheme of preparation of kinetics parameters in the SAPHIR<sub>R</sub>F computer code on the basis of various estimates of the parameters of delayed neutrons

В работе приведены результаты тестирования и верификации расчетных схемы подготовки параметров кинетики в программе САПФИР<sub>R</sub>F#0420#Ф на основе различных оценок параметров запаздывающих нейтронов

---

## **Impact assessment of coolant density variation on the accuracy of VVER energy release calculation**

**S21;S97**

*Artemov, V.G.; Kuznetsov, A.N. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU)), E-mail: elchine@niti.ru; Kurakin, K.Yu.; Tikhomirov, A.V. (Aksionernoe Obshchestvo Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU))*

Otsenka vliyaniya izmeneniya plotnosti teplonosatelya na tochnost' rascheta potvehl'nogo ehnergovydeleniya VVEhR

p. 80-88

(RU)

3 refs., 3 figs., 11 tabs.

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NUCLEAR POWER; WWER TYPE REACTORS; FUEL ASSEMBLIES; REACTOR CORES; COMPUTER CALCULATIONS; COMPUTER CODES

This paper presents the verification results of SAPFIR<sub>95</sub>&RC<sub>micro</sub> computer code that is intended for fine-grid three-dimensional pin-by-pin calculation of power in WWER reactor core at change of coolant density. Two-, six- and twelve-group diffusion approximation are calculated

В статье представлены результаты верификации программы САПФИР<sub>95</sub>&RC<sub>micro</sub>, предназначенной для мелкосеточного трехмерного потвального расчета энерговыделения в активной зоне реактора ВВЭР при изменении плотности теплоносителя. Проведены расчеты в двух-, шести- и двенадцатигрупповом диффузионном приближении

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**About power error estimation using the method of uncertainty and sensitivity analysis for verification of the coupled neutronic and thermal hydraulic codes S21;S97**

*Artemov, V.G.; Artemova, L.M.; Mikheev, P.A. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU)), E-mail: elchine@niti.ru*

Ob otsenke pogreshnosti rascheta moshchnosti metodom analiza neopredelennosti i chuvstvitel'nosti pri verifikatsii sopryazhennykh nejtronno-teplogidravlicheskich kodov p. 89-98

(RU)

10 refs., 6 figs., 1 tab.

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NUCLEAR POWER; WWER TYPE REACTORS; SAFETY ANALYSIS; COMPUTER CODES; CALCULATION METHODS; SENSITIVITY ANALYSIS

The paper describes the capability of sensitivity and uncertainty analysis for estimation of power calculation error during the computer code verification compared to the data received in experiments at operating power plants

В статье рассмотрены возможности метода анализа неопределенности и чувствительности для оценки погрешности расчета мощности при верификации программных средств в сравнении с данными, полученными в экспериментах на реальных энергоблоках

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**Research the effect of heterogeneous shielding on criticality of fast physical stand S21**

*Mishchukov, N.A.; Aznabaev, V.K.; Mishin, V.A.; Kolesov, V.V. («Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Obninskij Inst. Atomnoj Ehnergetiki, Obninsk (RU)), E-mail:*

*nickolai.mishukov@yandex.ru*

Issledovanie vliyaniya geterogennoj blokirovki na kritichnost' bystrogo fizicheskogo stenda p. 99-109

(RU)

12 refs., 6 figs., 3 tabs.

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NUCLEAR POWER; BENCHMARKS; SPENT FUELS; REACTIVITY COEFFICIENTS; MULTIPLICATION FACTORS; COMPUTER CODES

The study investigated the effect of heterogeneous shielding on the preparation of macroconstants for various mixtures. By comparing the effective multiplication factor it has been determined how significantly the cross sections are shielded and how much this affects the criticality of the entire system

В работе приведены исследования влияния гетерогенной блокировки на подготовку макроконстант для различных смесей. Путем сравнения эффективных коэффициентов размножения определялось: насколько существенно блокируются сечения и как сильно это влияет на критичность всей системы

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## **Simulation of non-stationary experiments at the ASTRA critical facility using the SHIPR software-based system**

**S97**

*Volkov, Yu.N.; Kruglikov, A.E. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: aekruglikov@mephi.ru; Zizin, M.N.; Boyarinov, V.F.; Nevinitza, V.A.; Fomichenko, P.A.; Bobrov, A.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU))*

Modelirovanie nestatsionarnykh ehksperimentov na kriticheskom stende ASTRA s pomoshch'yu programmnoj sistemy SHIPR

p. 110-119

(RU)

17 refs., 7 figs., 2 tabs.

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(no.3)

**CALCULATION METHODS; COMPUTERIZED SIMULATION; MONTE CARLO METHOD; COMPUTER CODES; HTGR TYPE REACTORS; ZERO POWER REACTORS**

The paper presents the comparison of stationary and nonstationary experiments carried out at the ASTRA critical facility and calculation by SHIPR software-based system. Experiments to determine the kinetic parameters of the fuel assembly were considered as non-stationary experiments by the Simons-King pulse method

Представлены результаты расчетов стационарных и нестационарных экспериментов на критическом стенде АСТРА с кольцевой активной зоной с помощью программной системы SHIPR. В качестве нестационарных экспериментов рассматривались эксперименты по определению кинетических параметров сборки импульсным методом Симонса-Кинга

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## **The thermohydraulic model of a reactor with a liquid metal coolant**

**S21**

*Chudinova, V.A.; Nikonov, S.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: betajulietta94@gmail.com*

Teplogidravlicheskaya model' reaktornoj ustanovki s zhidkometallicheskim teplonositelem

p. 120-127



(RU)

7 refs., 11 figs.

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(no.3)

NUCLEAR FACILITIES; BREST-OD-300 REACTOR; LIQUID METALS; THERMAL HYDRAULICS; SIMULATION; CALCULATION METHODS

This paper presents the results of calculations on the heat-hydraulic model of a reactor with lead coolant, which is based on the design scheme for the ATHLET code, obtained on the basis of public information on the BREST-OD-300 reactor plant

В настоящей работе представлены результаты расчетов по теплогидравлической модели реактора со свинцовым теплоносителем, в основу которой положена расчетная схема для кода ATHLET, полученная на основе открытой информации по реакторной установке БРЕСТ-ОД-300

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## **The use of a HTGCR-type reactor for hydrogen production is a step towards the green energy of the future**

**S21;S97**

*Volkov, Yu.N.; Kruglikov, A.E.; Shcherbakov, A.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), E-mail: AAScherbakov@mephi.ru*

Ispol'zovanie reaktora tipa VTGR dlya proizvodstva vodoroda - shag k «zelenoj» ehnergetike budushchego

p. 128-135

(RU)

6 refs., 11 figs.

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NUCLEAR POWER; SMALL MODULAR REACTORS; COMPUTER CALCULATIONS; COMPUTER CODES; COMPUTER-AIDED DESIGN; HYDROGEN PRODUCTION

The main goal of the article is to draw attention to HTGCR reactors, which have significant environmental and economic advantages. The calculation has shown that such reactors can operate in a closed fuel cycle, use materials such as thorium and plutonium as fuel, while they are economically viable and differ in a set of unique qualities

Главной целью статьи является привлечение внимания к реакторам типа ВТГР, обладающим значительными экологическими и экономическими преимуществами. Расчет показал, что такие реакторы могут работать в замкнутом топливном цикле, использовать в качестве топлива такие материалы, как торий и плутоний, при этом они являются экономически выгодными и отличаются набором уникальных качеств

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## **Partial neutron transport equations**

**S97**

*Seleznev, E.F.; Bereznev, V.P.; Chernova, I.S. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: seleznev@ibrae.ac.ru*

Partsial'nye uravneniya perenosa nejtronov

p. 143-152

(RU)

3 refs.

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COMPUTER CALCULATIONS; COMPUTER CODES; REACTOR KINETICS EQUATIONS; PARTIAL DIFFERENTIAL EQUATIONS; DELAYED NEUTRONS; NEUTRON TRANSPORT

In this paper a partial neutron transfer equations are formulated and an iterative process for solving these equations is proposed. Besides, the paper considers the possibility of representing the neutron flux density in a nonstationary process by individual equations for prompt and delayed neutrons and presents the initial results of modeling the nonstationary process for dumping a control rod in a fast medium-power reactor

В работе сформулированы парциальные уравнения переноса нейтронов и предложена организация итерационного процесса решения этих уравнений. Кроме того, в статье рассматривается возможность представления плотности потока нейтронов в нестационарном процессе отдельными уравнениями для быстрых и запаздывающих нейтронов и приводятся исходные результаты моделирования нестационарного процесса сброса управляющего стержня в быстром реакторе средней мощности

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## **Using partial equations for analysis of the fast breeder reactor kinetics**

**S21;S97**

*Seleznev, E.F.; Bereznev, V.P.; Chernova, I.S.; Belov, A.A. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail:*

*seleznev@ibrae.ac.ru*

Ispol'zovanie partsial'nykh uravnenij dlya analiza kinetiki reaktorov na bystrykh nejtronakh

p. 153-162

(RU)

5 refs., 7 figs., 6 tabs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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NUCLEAR POWER; FAST REACTORS; MIXED OXIDE FUELS; FAST NEUTRONS; DELAYED NEUTRONS; REACTOR KINETICS EQUATIONS

The paper demonstrates that the use of partial equations for tracking non-stationary processes in fast neutron reactors allows obtaining more complete information on the neutron-physical characteristics of the reactor in comparison with the classical system of equations

В работе продемонстрировано, что использование парциальных уравнений для отслеживания нестационарных процессов в реакторах на быстрых нейтронах позволяет

получать более полную информацию о нейтронно-физических характеристиках реактора по сравнению с классической системой уравнений

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## **To experimental evaluation of solutions of partial neutron transport equations in fast breeder reactors**

**S21;S97**

*Seleznev, E.F.; Bereznev, V.P.; Chernova, I.S. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: seleznev@ibrae.ac.ru*

К ehksperimental'noj otsenke reshenij partzial'nykh uravnenij perenosa v reaktorakh na bystrykh nejtronakh

p. 163-169

(RU)

4 refs., 6 figs., 1 tab.

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NUCLEAR POWER; FAST REACTORS; MIXED OXIDE FUELS; FAST NEUTRONS; DELAYED NEUTRONS; REACTOR KINETICS EQUATIONS; NEUTRON TRANSPORT

The paper analyzes the possibility of experimental evaluation of solutions of partial transfer equations in fast neutron reactors using threshold ionization chambers located inside the reactor vessel for registering high-energy neutrons

В работе проведен анализ возможности экспериментальной оценки решений парциальных уравнений переноса в реакторах на быстрых нейтронах с использованием пороговых ионизационных камер, располагаемых внутри корпуса реактора для регистрации высокоэнергетичных нейтронов

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## **Measurements of 14-MeV neutron transmission through lithium hydride layers by neutron activation analysis**

**S73**

*Andreev, S.A.; Gabbasov, D.M.; Kostenko, I.I.; Litvin, V.I.; Lukin, A.V.; Moseeva, A.R.; Namakonov, V.V.; Sokolov, Yu.A.; Khmel'nitskij, D.V.; Yudov, A.A. (Federal'noe Gosudarstvennoe Unitarnoe Predpriyatie «Rossijskij Federal'nyj Yadernyj Tsentr - Vserossijskij Nauchno-Issledovatel'skij Inst. Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina», Snezhinsk (RU)), E-mail: dep5@vniitf.ru*

Izmereniya prokhozheniya nejtronov s ehnergiej 14 MehV cherez sloi gidridov litiya metodom nejtronno-aktivatsionnogo analiza

p. 170-179

(RU)

4 refs., 8 figs., 4 tabs.

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## NEUTRONS; PROMPT NEUTRONS; NEUTRON TRANSFER; NEUTRON ACTIVATION ANALYSIS; LITHIUM HYDRIDES; NEUTRON DETECTORS

The paper presents the results of experiments in 14-MeV neutron transmission through lithium hydride layers 25 cm thick. Measurements have been performed by neutron-activation analysis using NG-12I neutron generator. The experimental geometry and measurement results are also described

В работе представлены результаты экспериментов по прохождению 14 МэВ нейтронов через слои гидридов лития толщиной до 25 см. Измерения выполнены методом нейтронно-активационного анализа на нейтронном генераторе НГ-12И. Приведено описание геометрии эксперимента и результатов измерений

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### **Pre-processor diffusion code DOLCE VITA**

**S22;S97**

*Drobyshev, Yu.Yu.; Seleznev, E.F.; Bereznev, V.P.; Dovgopolyj, A.O. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: dr.yuri92@yandex.ru*

Pre-processor diffuzionnogo koda DOLCE VITA

p. 180-188

(RU)

8 refs., 8 figs., 1 tab.

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(no.3)

NUCLEAR POWER PLANTS; FAST REACTORS; REACTOR CORES; FUEL ASSEMBLIES; COMPUTER CODES; APPROXIMATIONS; CALCULATION METHODS

The present paper shows an example of calculation task preparation for the DOLCE VITA code with number reactors from a set of benchmarks of 4th generation fast-neutron spectrum nuclear reactors

В настоящей работе приводится пример подготовки задания на расчет кода DOLCE VITA для реакторов из набора бенчмарков ядерных энергетических установок на быстрых нейтронах 4-го поколения

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### **Investigation of heat exchange in fuel rod bundles at supercritical water pressure**

**S21**

*Sorokin, A.P.; Kirillov, P.L.; Kuzina, Yu.A.; Grabezhnaya, V.A.; Loshchinin, V.M. (Aksionernoe Obschestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sorokin@ippe.ru*

Issledovaniya teploobmena v puchkakh tvehlov pri sverkhkriticheskom davlenii vody

p. 189-209

(RU)

42 refs., 13 figs., 1 tab.

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NUCLEAR FACILITIES; WATER COOLED REACTORS; FUEL RODS; HEAT TRANSFER;  
FUEL ASSEMBLIES; COMPUTER CALCULATIONS

A brief review of data on heat transfer in a round bare tube and in the bundles of rods is presented in this paper. Some recommendations on the calculation normal heat transfer for water in a round tube and in bundles of rods are considered. It is shown that despite of the variety of proposed design recommendations for onset of heat transfer deterioration, they are all empirical

В работе представлен краткий обзор данных о теплообмене в круглой трубе и пучках стержней реакторов на воде сверхкритического давления (СКД). Рассмотрены некоторые рекомендации по расчету теплоотдачи в условиях нормального теплообмена при СКД воды в круглой трубе и в пучках стержней. Показано, что, несмотря на многообразие предложенных расчетных рекомендаций по границе наступления таких режимов, все они носят эмпирический характер

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### **Thermal physics of alkaline liquid metal coolants. Part 1: thermohydraulics and safety (retrospective-perspective view)**

S21

*Kuzina, Yu.A.; Sorokin, A.P. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: ukyzina@ippe.ru*

Термофизика щелочных жидких металлов. Част' 1: теплогидравлика i bezопасnost' (retrospektivno-perspektivnyj vzglyad)

p. 210-232

(RU)

63 refs., 16 figs., 2 tabs.

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(no.3)

NUCLEAR FACILITIES; FAST REACTORS; LIQUID METALS; REACTOR SAFETY;  
THERMAL HYDRAULICS; COMPUTER CODES

The results investigations of hydrodynamics and heat transfer in channels of complex shape in fast reactors have been studied, both under normal operating conditions and deformation of a fuel cell grid. The reduction of collector hydraulic irregularities in reactors, heat exchangers and steam generators are described and justified

В работе изложены результаты исследований гидродинамики и теплообмена в каналах сложной формы при нормальных режимах эксплуатации и деформации решетки ТВЭЛов быстрых реакторов. Обосновано снижение коллекторных гидравлических неравномерностей в реакторах, теплообменниках и парогенераторах

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### **Thermal physics of alkaline liquid metal coolants. Part 2: physical chemistry, technology and innovative applications (retrospective-perspective view)**

S21

*Kuzina, Yu.A.; Sorokin, A.P. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: ukyzina@ippe.ru*

Теплофизика щелочных жидких металлов. Част' 2: физхимия, технология и инновационные приложения (retrospektivno-perspektivnyj vzglyad)

p. 233-251

(RU)

34 refs., 5 figs., 1 tab.

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FAST REACTORS; LIQUID METALS; REACTOR SAFETY; MASS TRANSFER; THERMODYNAMICS; OXYGEN; ALKALI METALS

The article presents the results of experimental and analytical studies in the field of physical chemistry, mass transfer, technology and innovative applications of alkaline liquid metal coolants in fast reactors. The tasks for further researches are formulated

В статье изложены результаты экспериментальных и аналитических исследований в области физической химии, массопереноса, технологии и инновационных приложений щелочных жидкометаллических теплоносителей быстрых реакторов. Сформулированы задачи дальнейших исследований

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## **Uncertainty of oxygen solubility in the liquid lead**

**S21**

*Legkikh, A.Yu.; Skomorokhov, A.N.; Sadovnichij, R.P. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: alegkikh@ippe.ru*

Neopredelennost' rastvorimosti kisloroda v zhidkom svintse

p. 252-260

(RU)

21 refs., 4 figs., 3 tabs.

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NUCLEAR FACILITIES; LEAD COOLED REACTORS; COOLANTS; LEAD; CORROSION PROTECTION; THERMODYNAMICS

The paper presents the calculated estimation of oxygen solubility uncertainty in the liquid lead on the basis of available experimental data and its contribution to the uncertainty of oxygen concentration dissolved in the lead coolant

В статье представлена расчетная оценка неопределенности растворимости кислорода в жидком свинце на основании имеющихся в литературе экспериментальных данных и ее вклада в неопределенность концентрации кислорода, растворенного в свинцовом теплоносителе

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## **The synergetic of fuel element**

## S21

*Orlova, E.A. (Obninskij Inst. Atomnoj Ehnergetiki - Filial Federal'nogo Gosudarstvennogo Avtonomnogo Obrazovatel'nogo Uchrezhdeniya Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Obninsk (RU)), E-mail: e.a.orlova2017@yandex.ru*  
Sinergetika tvehla

p. 261-272

(RU)

24 refs., 6 figs.

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**NUCLEAR POWER; REACTOR SAFETY; FUEL ELEMENTS; LIQUID METALS; MIXED NITRIDE FUELS; CORROSION RESISTANCE**

The synergetics of a fuel element with nitride fuel and a lead-based eutectic alloy with magnesium and zirconium has been confirmed by numerous computational and experimental studies. The paper shows that the use of a liquid metal sublayer instead of a gas one can significantly reduce the temperature in the center of the fuel, which increases the reactor safety at UTOP and ULOF accidents

Синергетика твэла с нитридным топливом и эвтектическим сплавом на основе свинца с магнием и цирконием подтверждена многочисленными расчетно-экспериментальными исследованиями. В работе показано, что использование жидкометаллического подслоя вместо газового позволяет существенно снизить температуру в центре топлива, что повышает безопасность при авариях UTOP (неконтролируемое увеличение мощности) ULOF (потеря расхода теплоносителя)

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## **Verification of KORSAR/GP programming code for calculation with time constants changing function for modeling xenon transient processes on VVER reactor plant**

### S97

*Nikolaev, A.L.; Uvakin, M.A. (Aksionernoe Obshchestvo Opytnoe Konstruktsionnoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail: alnikolaev1@bk.ru*

Verifikatsiya koda KORSAR/GP dlya raschetov s funktsiej izmeneniya postoyannykh vremeni pri modelirovanii ksenonovykh perekhodnykh protsessov na RU VVEhR

p. 5-14

(RU)

8 refs., 14 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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(no.4)

**NUCLEAR FACILITIES; WWER TYPE REACTORS; CALCULATION METHODS; COMPUTERIZED SIMULATION; COMPUTER CODES; XENON**

In this paper, authors have verified the method for accelerating the calculation of slow transient xenon processes based on the similarity theorem. For this purpose, experiments with spatial



xenon vibrations were calculated using this method. Some conclusions are made on the possibility of using the acceleration method for calculating long-term xenon processes

В данной работе проводилась верификация метода ускорения расчета медленных переходных ксеноновых процессов, основанного на использовании теоремы подобия. С этой целью были проведены расчеты экспериментов с пространственными ксеноновыми колебаниями с использованием указанного метода. Сделаны некоторые выводы по возможности применения метода ускорения для расчета длительных ксеноновых процессов

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## **The analysis of MIR reactor fulfilled fuel handling nuclear safety**

**S12;S21**

*Fraaz, E.S.; Akimov, A.V.; Malkov, A.P. (AO «Gosudarstvennyj Nauchnyj Tsentr - Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)), E-mail: FraazES@mail.ru*  
Analiz yadernoj bezopasnosti pri obrashchenii s otrabotavshim toplivom reaktora MIR

p. 15-22

(RU)

5 refs., 6 figs.

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NUCLEAR POWER; RADIATION PROTECTION; MIR REACTOR; SPENT FUELS;  
WASTE MANAGEMENT; COMPUTER CODES

The paper presents the main results of neutron and physical calculations of parameters important for nuclear safety during storage and transportation of irradiated fuel assemblies and irradiation devices of the MIR reactor, as well as during operation in radiation-protective research chambers on assembling and disassembling of irradiation devices

В работе представлены основные результаты нейтронно-физических расчетов параметров, важных для ядерной безопасности, при хранении и транспортировании облученных рабочих и петлевых тепловыделяющих сборок и облучательных устройств реактора МИР, а также при проведении работ в радиационно-защитных исследовательских камерах по сборке и разборке облучательных устройств

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## **Verification of $S_N$ -modelling of program FRIGATE on special test problems**

**S21;S97**

*Zalesova, A.S.; Nikolaev, A.A. (Aksionernoe Obshchestvo Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail: nikolaev\_aa@grpess.podolsk.ru*

Verifikatsiya  $S_N$ -modelirovaniya programmy FRIGATE na spetsial'nykh testovykh zadachakh

p. 23-32

(RU)

16 refs., 9 figs., 4 tabs.

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NUCLEAR POWER; FAST REACTORS; JOYO REACTOR; PROGRAMMING;  
CALCULATION METHODS; COMPUTERIZED SIMULATION

This paper presents the results of verification of the main features of the  $S_N$ -block of the FRIGATE program on two specially developed tests and a benchmark experiment of the JOYO fast neutron reactor

В работе представлены результаты верификации основных возможностей  $S_N$ -блока программы FRIGATE на двух специально разработанных тестах и бенчмарк-эксперименте реактора на быстрых нейтронах JOYO

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**Program DECAR for unstable nuclide transfer modeling in rooms and calculation of effective dose**

**S61;S97**

*Davidenko, O.V.; Tsibul'skij, S.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: Davidenko\_OV@nrcki.ru*

Programma DECAR dlya modelirovaniya perenosa nestabil'nykh nuklidov po pomeshcheniyam i rascheta ehffektivnykh doz oblucheniya

p. 33-41

(RU)

5 refs., 11 figs.

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RADIATION PROTECTION; RADIATION MONITORING; RADIATION DOSES;  
COMPUTER CODES; COMPUTERIZED SIMULATION; ISOTOPES

The results of computational modeling of the activity exit from the reactor box to the hall with various parameters of mass transfer are obtained. The results of calculating the effective dose from external radiation in the reactor box and the integral inhalation doses in the room for various parameters of activity output to the room are presented in this paper

В работе приведены результаты расчетного моделирования выхода активности нестабильных нуклидов из реакторного бокса в зал при различных параметрах массопереноса. Также представлены результаты расчета эффективной дозы от внешнего облучения в реакторном боксе и интегральные ингаляционные дозы в зале при различных параметрах выхода активности в зал

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**Influence of manufacturing uncertainties on HTGR neutron-physics and fuel isotopic composition during burnup**

**S12;S97**

*Grol', A.V.; Boyarinov, V.F.; Fomichenko, P.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: Grol\_AV@nrcki.ru*

Vliyanie neopredelennostej tekhnologicheskikh parametrov na nejtronno-fizicheskie kharakteristiki VTGR i izotopnyj sostav topliva v protsesse oblucheniya

p. 42-49

(RU)

7 refs., 8 figs., 2 tabs.

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NUCLEAR FACILITIES; HTGR TYPE REACTORS; NUCLEAR FUELS; SENSITIVITY ANALYSIS; COMPUTER CODES; BURNUP

The paper analyzes the influence of process parameter uncertainties on neutron and physical characteristics of the HTGR-reactor and the isotopic composition of fuel during irradiation

В работе дан анализ влияния неопределенностей технологических параметров на нейтронно-физические характеристики реактора ВТГР и изотопный состав топлива в процессе облучения

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### **Dominance ratio in BN-type reactor cores**

**S22;S97**

*Gulevich, A.V.; Dolgikh, V.P.; Eliseev, V.A.; Peregodova, O.O.; Rozhikhin, E.V.; Semenov, M.Yu.; Stogov, V.Yu.; Tormyshev, I.V. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: itormyshev@ippe.ru*

Raschet dominantnogo otnosheniya dlya aktivnoj zony reaktora tipa BN

p. 50-54

(RU)

10 refs., 2 tabs.

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NUCLEAR POWER; REACTOR SAFETY; FAST REACTORS; REACTOR CORES; NEUTRON FLUX; BREEDING RATIO; HARMONICS

The results of dominance ratio evaluation for large BN-type reactor are considered in the paper. Dominance ratio of BN-type reactor compared with dominance ratios for several high power thermal reactors. It is shown that dominance ratio of BN-type high power reactor is still lower, than that of thermal reactors. Hence, instability of neutron field in BN-type reactors due to high dominance ratio seems to be unlikely

В работе представлены расчетные оценки доминантного отношения для реактора большой мощности на быстрых нейтронах (БН), проведено сравнение с имеющимися в литературе оценками доминантного отношения для реакторов на тепловых нейтронах большой мощности, показано, что собственные значения реактора типа БН разрешены значительно лучше, чем в реакторах на тепловых нейтронах. Таким образом, возможность возникновения неустойчивости поля энерговыделения в реакторе типа БН представляется маловероятной

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### **Calculation of self-powered detectors response by means of the MCU-PD and**

## **TVS-M codes**

**S97**

*Bikeev, A.S.; Kurchenkov, A.Yu.; Shkarovskij, D.A.; Shkityr', V.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: shkityr\_vv@nrcki.ru*

Raschet po programmam MCU-PD i TVS-M pokazanij detektorov pryamoj zaryadki

p. 55-66

(RU)

8 refs., 9 figs., 2 tabs.

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**NUCLEAR POWER; WWER TYPE REACTORS; FUEL ASSEMBLIES; SELF-POWERED DETECTORS; BURNUP; COMPUTER CODES; MONTE CARLO METHOD**

The main objective of the work is a comparative analysis of the TVS-M spectrum code and the MCU-PD Monte Carlo code as applied to the calculation of transition functions of self-powered neutron detectors for WWER fuel assemblies. During the work, researches have created calculation models of several types of fuel assemblies, differ in type of fuel, presence of fuel rods with Gd

Цель представленной работы - сравнительный анализ переходных функций датчиков прямого заряда (ДПЗ) систем внутриреакторного контроля для тепловыделяющих сборок (ТВС) реактора ВВЭР с новым видом топлива, рассчитанных по спектральной программе ТВС-М и реализующей метод Монте-Карло программе MCU-PD. В процессе выполнения работы были разработаны модели нескольких типов ТВС, различающихся по составу топлива, наличию тепловыделяющих элементов с гадолинием и положению ДПЗ

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## **Development and testing of full-scale mathematical model of a transport container for radiation safety evaluation by the Monte Carlo method during carting spent fuel of VVER-1000 and VVER-1200**

**S97**

*Bikeev, A.S.; Dajchenkova, Yu.S.; Kalugin, M.A.; Olejnik, D.S.; Shkarovskij, D.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail:*

*Daychenkova\_YS@nrcki.ru*

Razrabotka i aprobatsiya polnomasshtabnoj matematicheskoy modeli transportnogo kontejnera dlya analiza radiatsionnoj bezopasnosti metodom Monte-Karlo pri perevozke topliva VVEhR-1000 i VVEhR-1200

p. 67-78

(RU)

10 refs., 6 figs., 1 tab.

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**NUCLEAR FACILITIES; WWER TYPE REACTORS; RADIATION PROTECTION; FUEL ASSEMBLIES; COMPUTER CODES; MONTE CARLO METHOD; COMPUTERIZED SIMULATION**

The main objective of the work is development and testing of the full-scale mathematical model of the new generation transport container for analysis of radiation safety using the Monte Carlo method, as well as performing numerical studies on the selection of optimal non-analog modeling parameters

Цель работы - разработка и апробация полномасштабной математической модели транспортного контейнера нового поколения для анализа радиационной безопасности методом Монте-Карло, а также проведение численных исследований по выбору оптимальных параметров неаналогового моделирования

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## **Results of modeling the output of the reactor BN-800 on the minimum controlled power level after completion of 5 microcampaign**

S21

*Seleznev, E.F.; Belov, A.A.; Drobyshev, Yu.Yu. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki RAN, Moscow (RU)), E-mail: seleznev@ibrae.ac.ru; Ivanov, A.A.; Mitrofanov, S.Yu.; Kuz'min, A.S. (Beloyarskaya Atomnaya Ehlektrostantsiya, Zarechnyj (RU))*

Rezultaty modelirovaniya vykhoda RU BN-800 na MKU po zavershenii 5 mikrokampanii p. 79-86

(RU)

3 refs., 7 figs.

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FAST REACTORS; BELOYARSK-4 REACTOR; IONIZATION CHAMBERS; COMPUTERIZED SIMULATION; THRESHOLD DETECTORS; REACTOR KINETICS

The paper presents the simulation results of the BN-800 reactor being placed in a critical state upon completion of 5 microcampaign when detectors are placed inside the reactor building in the vicinity of discharge elevators with a demonstration of signal levels in off-threshold and threshold detectors. The calculated data are supplemented by experimental signals from non-threshold detectors located in the same region of the reactor

В работе представлены результаты моделирования выхода реакторной установки БН-800 в критическое состояние по завершении пятой микрокампании при размещении детекторов внутри корпуса реактора в районе расположения элеваторов выгрузки с демонстрацией уровня сигналов в беспороговых и пороговых детекторах. Расчетные данные дополнены экспериментальными сигналами с беспороговых детекторов, размещенных в той же области реактора

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## **Calculation of non-stationary three-dimensional neutron-physical tests of the international benchmark C5G7-TD using the code SUHAM-3D-TD**

S21

*Boyarinov, V.F. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: Boyarinov\_VF@nrcki.ru*

Raschet nestatsionarnykh trekhmernykh nejtronno-fizicheskikh testov mezhdunarodnogo benchmarka C5G7-TD po programme SUHAM-3D-TD

p. 87-106

(RU)

10 refs., 18 figs., 2 tabs.

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NUCLEAR FACILITIES; PWR TYPE REACTORS; REACTIVITY; CONTROL ELEMENTS; BENCHMARKS; HARMONICS

This paper presents the results of calculations of five non-stationary tests associated with movement of groups of control rods and four non-stationary tests associated with the disturbance of the coolant density in the core of a model light water reactor of the PWR type

В работе приведены результаты расчетов пяти трехмерных нестационарных тестов с движением групп управляющих стержней и четырех нестационарных тестов, связанных с возмущением плотности теплоносителя в активной зоне модельного легководного реактора типа PWR

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### **Surface harmonics method for neutronic calculation of 3d heterogeneous reactor with non-symmetric cells**

**S97**

*El'shin, A.V. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU); Inst. Yadernoj Ehnergetiki (Filial) Sankt-Peterburgskogo Politehnicheskogo Univ. Petra Velikogo, Sosnovyj Bor (RU)), E-mail: avelshin@gmail.com; Agalina, P.V. (Inst. Yadernoj Ehnergetiki (Filial) Sankt-Peterburgskogo Politehnicheskogo Univ. Petra Velikogo, Sosnovyj Bor (RU))*

Metod poverkhnostnykh garmonik dlya nejtronno-fizicheskogo rascheta trekhmernogo geterogennogo reaktora s nesimmetrichnymi yachejkami

p. 107-117

(RU)

10 refs., 7 figs., 1 tab.

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MATHEMATICAL MODELS; HARMONICS; FICK LAWS; NEUTRON DIFFUSION EQUATION; NUMERICAL SOLUTION; APPROXIMATIONS

The surface harmonics method for neutronic calculation of 3-d heterogeneous reactor with non-symmetric cells is described in the paper. It is shown that the system of equations allows to abandon the diffusion approximation when calculating the reactor, using cross-linking at the cell boundaries not only of the current density and neutron flux, but also higher angular moments

В работе описан метод поверхностных гармоник для нейтронно-физического расчета трехмерного гетерогенного реактора с несимметричными ячейками. Показано что система уравнений позволяет отказаться от диффузионного приближения при расчете реактора, используя сшивку на границах ячеек не только плотности тока и потока нейтронов, но и более высоких угловых моментов

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## **Results of «Benchmark Rostov 2» test task simulation using SAPFIR<sub>95</sub>&RC<sub>V</sub>VER and KORSAR program package**

**S97**

*Artemov, V.G.; Artemova, L.M.; Korotaev, V.G.; Kuznetsov, A.N. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU)), E-mail: elchine@niti.ru*

Rezultaty modelirovaniya testovoj zadachi «Benchmark Rostov 2» s ispol'zovaniem kompleksa programm SAPFIR<sub>95</sub>&RC<sub>V</sub>VEhR i KORSAR

p. 118-127

(RU)

5 refs., 12 figs.

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NUCLEAR FACILITIES; WWER TYPE REACTORS; CALCULATION METHODS; COMPUTERIZED SIMULATION; COMPUTER CODES; ENERGY SPECTRA

This paper presents the results of «Benchmark Rostov 2» test task simulation using SAPFIR<sub>95</sub>&RC<sub>V</sub>VER program package; the test task is based on a full-scale experiment performed at the Rostov NPP, where the transition mode with boric acid dilution and a working group insertion to compensate the reactivity were implemented. Calculation results for power energy distribution fields are given

В работе представлены результаты моделирования с использованием комплекса программ САПФИР<sub>95</sub>&RC<sub>V</sub>ВЭР тестовой задачи «Benchmark Rostov 2», в основу которой положен натурный эксперимент, выполненный на Ростовской АЭС, в котором реализован переходный режим с разбавлением борной кислоты и компенсацией реактивности погружением рабочей группы. Приведены результаты расчетов полей энерговыделения

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## **Introduction energy deposition of delayed gammas using KERMA factors in MCU-PTR**

**S21;S97**

*Kalugin, M.A.; Kuznetsov, A.N.; Olejnik, D.S.; Shkarovskij, D.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: kuznetsov\_an@nrcki.ru*

Uchet vklada zapazdyvayushchikh fotonov v ehnergovydelenie v programme MCU-PTR s ispol'zovaniem KERMA-faktorov

p. 128-133

(RU)

6 refs., 1 fig., 2 tabs.

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NUCLEAR POWER; REACTOR CORES; NEUTRONS; KINETIC ENERGY; CALCULATION METHODS; MONTE CARLO METHOD; ENERGY ABSORPTION; PHOTON TRANSPORT



The paper describes the realization of upgrade precision Monte Carlo program MCU-PTR for introduction energy deposition of delayed gammas in energy release calculations

В работе рассмотрена реализация модификации, применяющей метод Монте-Карло прецизионной программы MCU-PTR для обеспечения возможности учета запаздывающих фотонов при расчетах радиационного энерговыделения

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## **On the stability of a neutron matter and the possibilities of its production on the earth. Problem of «zero elements» in works D.I. Mendeleev**

**S72**

*Ryazantsev, G.B.; Bekman, I.N.; Buntseva, I.M. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU)), E-mail: anis-mgu@rambler.ru*

O stabil'nosti nejtronnogo veshchestva i vozmozhnosti ego polucheniya. Problema «nulevykh ehlementov» v rabotakh D.I. Mendeleeva

p. 134-142

(RU)

21 refs.

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CHEMISTRY; CHEMICAL REACTIONS; PERIODIC SYSTEM; NUCLEAR MATTER; NONLUMINOUS MATTER; UNIVERSE

Authors consider a neutron matter as the primary cosmological substance, a candidate for dark matter and its production in laboratory conditions on Earth. Based on the works of Tamm, Hund and Migdal, the possibility of the stable existence of neutron matter at the micro level, and not only at the macro level, as is now believed in astrophysics, is stated

В работе рассматривается нейтронное вещество в качестве первичного космологического кандидата на темную материю и его получение в лабораторных условиях на Земле. На основании трудов Тамма, Хунда и Мигдала утверждается возможность стабильного существования нейтронного вещества на микроуровне, а не только на макроуровне, как сейчас считается в астрофизике

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## **Use of direct integrated tests with a standardized spectrum for testing the capture cross section of fission product**

**S21**

*Koshcheev, V.N.; Rozhikhin, E.V.; Yakunin, A.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: vkosheev@ippe.ru*

Ispol'zovanie pryamykh integral'nykh testov so standartizirovannym spektrom dlya testirovaniya secheniya zakhvata oskolkov deleniya

p. 143-153

(RU)

15 refs., 8 figs., 1 tab.

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NUCLEAR FACILITIES; FAST REACTORS; CFRMF REACTOR; ISOTOPES; NEUTRON REACTIONS; FISSION PRODUCTS

The paper presents the results of validation for the capture cross section of the main fission product nuclides from different neutron data libraries on the results of measurements in integral experiments. A list of the main fission products for various types of fast reactors with various burnups of fuel is defined

В работе приведены результаты тестирования сечения захвата основных осколков деления из разных библиотек нейтронных данных на результатах измерений в прямых интегральных тестах. Определен список основных продуктов деления для различных типов быстрых реакторов с различным выгоранием топлива

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## **IX School-conference of young nuclear scientists of Siberia. Collection of abstracts**

**S12;S54;S62;S96;S98**

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Administratsiya Tomskoj Oblasti, Tomsk (RU); Natsional'nyj Operator po Obrashcheniyu s Radioaktivnymi Otkhodami, Moscow (RU); FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ.», Tomsk (RU); Severskij Tekhnologicheskij Inst. - Filial FGAOU VO «Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Seversk (RU); Aktsionernoe Obshchestvo «Sibirskij Khimicheskij Kombinat», Seversk (RU); Informatsonnyj Tsentr po Atomnoj Ehnergii v g. Tomske, Tomsk (RU); Regional'naya Obshchestvennaya Organizatsiya «Tomskoe Professorskoe Sobranie», Tomsk (RU)

### **IX School-conference of young nuclear scientists of Siberia**

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LEADING ABSTRACT; MEETINGS; SAFETY; PROLIFERATION; RADIOACTIVE WASTES; RADIOACTIVE WASTE MANAGEMENT; RADIOECOLOGY; NUCLEAR MEDICINE; CHEMISTRY; AUTOMATION; INFORMATION SYSTEMS

The collection includes materials of the IX School-conference of young nuclear scientists of Siberia. The results of scientific research related to actual problems of nuclear non-proliferation, nuclear industry safety, radioecology and radioactive wastes handling safety are presented. Consideration is given to the promising directions of nuclear energetics development, nuclear technologies in innovation economy and nuclear medicine, and also chemical technologies in atomic industry and energetics. Automation and informatization of technologies and objects of atomic industry is discussed

Сборник включает материалы IX Школы-конференции молодых атомщиков Сибири. Приводятся результаты научных исследований, связанных с актуальными вопросами ядерного нераспространения, безопасности ядерной отрасли, радиоэкологии и безопасности при обращении с радиоактивными отходами. Рассматриваются перспективные направления развития ядерной энергетики, ядерных технологий в инновационной экономике и ядерной медицине, а также химические технологии в атомной промышленности и энергетике. Обсуждаются автоматизация и информатизация технологий и объектов атомной отрасли

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## **Application of the method of gas-phase hydrogen absorption for forming gradient hydrogen distribution in zirconium alloy Eh110**

**S36**

*Babikhina, M.N.; Kudiyarov, V.N. (Natsional'nyj Issledovatel'skij Tomskij Politekhicheskij Univ., Tomsk (RU)), e-mail: m.babikhina@mail.ru, kudiyarov@tpu.ru*

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Primenenie metoda gazofaznogo navodorozhivaniya dlya formirovaniya gradientnogo raspredeleniya vodoroda v tsirkonievom splave Eh110

p. 15

(RU)

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## **Estimation of the level of surface contamination and population doses due to the Fukushima-1 power plant accident**

**S61**

*Bugrina, V.S.; Istomina, N.Yu.; Noskov, M.D.; Istomin, A.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: MDNoskov@mephi.ru*

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## **Application of the methods of synthesized aperture in ultrasonic flaw detection with the use of phased antenna arrays**

**S12;S36**

*Vdovenko, A.Yu.; Dolmatov, D.O. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: ayv9@tpu.ru*

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## **The problems of nuclear energy safe use in Russia and the world**

**S12;S21**

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## **Introduction of new approaches to use safety during potentially nuclear-hazard operations at nuclear power plants of ships**

**S21**

*Grishin, A.A. (FGUP «Atomflot», Murmansk (RU)), e-mail: [general@rosatomflot.ru](mailto:general@rosatomflot.ru)*

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*Semenov, V.K.; Dem'yanov, S.A.; Korablev, S.A.; Chizhova, E.S. (Ivanovskij Gosudarstvennyj Ehnergeticheskij Univ. im. V.I. Lenina, Ivanovo (RU)), e-mail: ssoonnee@mail.ru*

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REACTORS; INHIBITION

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S46

*Dolgikh, L.Yu.; Nikishkin, T.G.; Chursin, S.S. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: lyd1@tpu.ru*

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Sozdanie prototipa detektora na osnove PIN-fotodioda BPW-34 v tselyakh spektrometrii rentgenovskogo i gamma-izlucheniya

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## **Assessment of breeding properties of medium on the base of the BREST-OD-300 reactor**

**S21**

*Kalinovskij, Yu.A.; Prets, A.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: yura020497@gmail.com*

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### **Determination procedure of oxygen content by combined method in uranium-plutonium oxide fuel**

**S11**

*Kireeva, M.S.; Chukhlantseva, E.V.; Stepanova, O.V.; Semenov, M.A. (Federal'noe Unitarnoe Gosudarstvennoe Predpriyatie «Proizvodstvennoe Ob'edinenie «Mayak», Ozersk (RU)), e-mail: mariakireeva89@gmail.com*

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QUALITATIVE CHEMICAL ANALYSIS; GAS CHROMATOGRAPHY

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### **Comparison of energy characteristics of sources of increased radiation background of Tomsk region soils**

**S54**

*Kolotkov, G.A.; Penin, S.T. (Inst. Optiki Atmosfery im. V.E. Zueva SO RAN, Tomsk (RU)); Matina, P.N. (Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU)), e-mail: kolotkov@iao.ru*

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### **Estimation of radiation intensity at 1,4 GHz frequency from atmospheric emissions of mining and chemical plant (Krasnoyarsk)**

**S54**

*Kolotkov, G.A.; Penin, S.T. (Inst. Optiki Atmosfery im. V.E. Zueva SO RAN, Tomsk (RU)), e-mail: kolotkov@iao.ru*

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## **Quantitative approach to the analysis of potential ways of nuclear materials acquisition**

**S98**

*Koneva, D.A.; Sednev, D.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: d.a.koneva@gmail.com*

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## **Estimation of ionizing radiation impact on population during normal operation of nuclear power plant**

**S54**

*Nikitin, A.V.; Istomina, N.Yu.; Noskov, M.D.; Istomin, A.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: NYIstomina@mephi.ru*

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RATES; EVALUATION; HUMAN POPULATIONS

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## **Problems and prospects of developing solid radioactive waste disposal facility on the territory of Seversk**

**S12**

*Pak, A.D.; Shrajner, A.Eh.; Andreev, V.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: pak.alex96@gmail.com*

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**Xenon as a possible harbinger of uranium deposits**

**S54**

*Pak, A.D.; Guzeev, V.V.; Semenov, S.S.; Tsirkunov, P.T.; Zubarev, E.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: pak.alex96@gmail.com*

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**Comprehensive technology for ensuring the safety of containers for spent nuclear fuel**

**S12**

*Sednev, D.A.; Koneva, D.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: sednev@tpu.ru*

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### **Mathematical model of migration of polluting components formed during sulfuric acid borehole uranium leaching**

**S11;S97**

*Terovskaya, T.S.; Kesler, A.G.; Noskov, M.D. («Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Severskij Tekhnologicheskij Inst., Seversk (RU))*

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### **The concept of automated monitoring system of formation water level for the purpose of technological process control of the EGP LRW exploitation**

**S12**



*Kokorev, O.N. (STI NIYaU MIFI, Seversk (RU)); FGUP «NO RAO» Filial «Severskij», Seversk (RU)); Noskov, M.D.; Shchipkov, A.A. (STI NIYaU MIFI, Seversk (RU)); Kozlov, A.E. (FGUP «NO RAO» Filial «Severskij», Seversk (RU))*

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**Phosphate matrices for inclusion electrolytes of pyrochemical reprocessing of spent nuclear fuel**

**S12**

*Kolobova, A.A.; Lizin, A.A.; Tomilin, S.V. (Aksionernoe obshchestvo Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov, Dimitrovgrad (RU)), e-mail: niar@niar.ru*

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## **Environmental education as a way of forming positive attitude of youth to nuclear power engineering**

**S54**

*Lil'bok, A.D.; Saidov, R.S.; Abbasov, P.R. (Rossijskaya Akademiya Narodnogo Khozyajstva i Gosudarstvennoj Sluzhby pri Prezidente RF (Chelyabinskij Filial), Chelyabinsk (RU)), e-mail: abbasovp@yandex.ru*

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## **Relationship between rainfall and gamma radiation abnormal dose rate surges in the atmosphere**

**S54**

*Lozovskij, M.A.; Bepalov, V.I.; Yakovleva, V.S. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Belyaeva, I.V. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Tomskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ. Tomsk (RU)); Yakovlev, G.A. (MBOU Litsej pri Tomskom Politehnicheskom Univ., Tomsk (RU)); Nagorskij, P.M.; Smirnov, S.V.; Pustovalov, K.N. (Inst. Monitoringa Klimaticheskikh i Ehkologicheskikh Sistem SO RAN, Tomsk (RU)), e-mail: lozovskiimark@mail.ru*

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**Analysis of the effect of various additives to cement matrices based on portland cement**

**S12**

*Malyshev, M.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: malyshev.ms.work@yandex.ru*

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## **Handling of solid radioactive wastes of the category very low active wastes on FSUE «GKhK»**

**S12**

*Matselya, V.I.; Mudarisov, O.V. (Federal'naya Yadernaya Organizatsiya Federal'noe Gosudarstvennoe Unitarnoe Predpriyatie «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU)), e-mail: atomlink@mcc.krasnoyarsk.su*

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## **Distribution of carbon-14 in environment objects caused by nuclear power plant emissions**

**S12**

Nazarov, E.I. (*Ural'skij Federal'nyj Univ., Ekaterinburg (RU)*); Ekidin, A.A.; Vasil'ev, A.V. (*Inst. Promyshlennoj Ehkologii UrO RAN, Ekaterinburg (RU)*)

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**Phosphate matrices for inclusion of salt wastes of pyrochemical processes**

**S12**

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POPULATIONS; NUCLEAR POWER; INFORMATION; VIDEO FILES; LECTURES

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**Effect of ionizing radiation on human body**  
**S63**

*Sorbat, D.M. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Dimitrovgrad (RU))*

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## **Determination of the specific activity of tritium in irradiated nuclear fuel**

**S11**

*Tikhonova, D.E.; Momotov, V.N.; Erin, E.A.; Volkov, A.Yu.; Kupriyanov, A.S. (AO «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrograd (RU)), e-mail: niar@niar.ru*

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## Using of gamma-camera to detect characteristics of radioactive wastes

S07

*Khanbikov, R.Z.; Karel'skij, I.D. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Dimitrovgrad (RU))*

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## About automated control of the content $\alpha$ -active radionuclides on the surface

S61;S46

*Khorokhorin, D.M.; Ereemeev, R.S. (FYAO FGUP «Gorno-Khimicheskij Kombinat»,  
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## **Crystal-chemical simulation, synthesis and studying of structure and properties of mineral-like phosphate matrices-retainers of HAW**

**S12;S36**

*Shaburova, E.S.; Kozlov, P.V. (FGUP «PO «Mayak», Ozersk (RU); OTI NIYaU MIFI, Ozersk (RU)); Orlova, V.A.; Belanova, E.A. (FGUP «PO «Mayak», Ozersk (RU)), e-mail:*

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## **Problems of radioactive waste disposal**

**S54**

*Shapkina, S.I. (Gosudarstvennyj Univ. Upravleniya, Moscow (RU)), e-mail:*

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## **Simulation and research of the processes of plasma utilization and immobilization of silt deposits of LRW storage ponds**

**S12**

*Shestakova, L.A. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)), e-mail: shestakova\_lyu@mail.ru*

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### **Cost management system in nuclear construction**

**S29**

*Abramchenko, E.S.; Vorontsova, V.V. (Gosudarstvennyj Univ. Upravleniya, Moscow (RU)), e-mail: ufowee@yandex.ru*

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### **Spatial distribution of temperature in a high-temperature fuel compact of reactor plant**

**S21**

*Shamanin, I.V.; Karengin, A.G.; Knyshev, V.V.; Bedenko, S.V.; Zor'kin, A.I.; Alekseev, N.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: vvk28@tpu.ru*

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## **Synthesis of ZrO<sub>2</sub> and Y<sub>2</sub>O<sub>3</sub> nanoscale powders in conditions of air plasma of high-frequency filter discharge**

**S77**

*Alyukov, E.S.; Novoselov, I.Yu. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)), e-mail: john.judo@mail.ru*

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## **Analysis and prospects for the use of floating nuclear thermal power plant**

**S21**

*Akhremenkov, B.V.; Sozontov, A.A. (Gosudarstvennyj Univ. Upravleniya, Moscow (RU)), e-mail: Andrey-sozontov@yandex.ru, kinugasaki@gmail.ru*

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## **Plasma-chemical synthesis and evaluation of thermal conductivity of complex oxide compositions for advanced types of nuclear fuel**

**S11**

*Babaev, R.G.; Karengin, A.A.; Novoselov, I.Yu. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ.», Tomsk (RU)), e-mail: bobontuber@inbox.ru*

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### **Mathematical simulation of combustion wave propagation in SHS in intermetallic systems**

**S11**

*Balachkov, M.M.; Permikin, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: mmb2@tpu.ru*

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### **Measurement of water samples using the radon detector RAD H<sub>2</sub>O**

**S07**

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Izmerenie prob vody s pomoshch'yu detektora radona RAD H<sub>2</sub>O

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### **Software tool for automatic creation of MCU calculation code for NR neutron-physical calculation**

**S97**

*Varlamov, I.A.; Smol'nikov, N.V.; Chursin, S.S. (Tomskij Politekhnicheskij Univ., Tomsk (RU)), e-mail: ivanvarlamov199742@gmail.com*

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### **Neutron-physical calculation of the WWER-1000 reactor**

**S21**

*Varlamov, I.A.; Chursin, S.S. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: ivanvarlamov199742@gmail.com*

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### **Effect of long-term post-radiation annealing on zirconium hydrides morphology in fuel cans of WWER-1000 reactors**

**S36**

*Galyautdinova, R.R. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Dimitrovgrad (RU)), e-mail: rigi\_2d@mail.ru*

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## **Calculation of the duration of nuclear fuel campaign of WK-300 reactor**

**S22**

*Glushkova, D.A.; Boyarskij, M.S.; Kozlov, S.E. (Tomskij Politehnicheskij Univ., Tomsk (RU)),  
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## **Software for evaluation of economic efficiency of working block by way of borehole underground leaching**

**S11**

*Goncharova, N.A.; Valitov, S.N.; Gutsul, M.V.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: aleksandrovad270@mail.ru*

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**Forming of cross-section profile of electron beams of given configuration with the help of plastic items****S62**

*Grigor'eva, A.A.; Krasnykh, A. A.; Cherepennikov, Yu.M.; Stuchebrov, S.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU); Milojchkova, I.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU)), e-mail: anngrigorievabr@gmail.com*

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### **Development of diagnostic method of electron beam cross section**

**S62**

*Danilova, I.B.; Krasnykh, A.A.; Cherepennikov, Yu.M.; Stuchebrov, S.G. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Milojchikova, I.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU)), e-mail: irisna2809@gmail.com*

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### **Analysis of materials of direct charge detector**

**S22**

*Zajtsev, E.V. (FGUP «PO «Mayak», Ozersk (RU))*

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## **Protective radiation materials obtained by self-propagating high-temperature synthesis**

**S36**

*Zakusilov, V.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: vvzakusilov@tpu.ru*

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## **Passive heat removal system as a NPP safety system**

**S22**

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## **Calculational research of the dispersion fuel application in reactor plant of the IV generation**

**S11**

*Zor'kin, A.I.; Sabitova, R.; Kuznetsova, M.E.; Ukrainets, O.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ. Tomsk (RU)), e-mail: aiz4@tpu.ru*

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### **Investigation of electron passage through polymer samples made by three-dimensional printing methods**

**S62**

*Ismailova, A.A.; Krasnykh, A.A.; Cherepennikov, Yu.M.; Stuchebrov, S.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Milojchikova, I.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU)), e-mail: aai40@tpu.ru*

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### **Evaluation of breeding properties of medium based on the BREST-OD-300**



## **reactor**

### **S21**

*Kalinovskij, Yu.A.; Prets, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: yura020497@gmail.com*

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## **Possibilities of using spectroscopy in clinical medicine**

### **S62**

*Karel'skij, I.D.; Khanbikov, R.Z. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Dimitrovgrad (RU)), e-mail: karelskiyilya@gmail.com*

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### **Evaluation of the perspectives of high-temperature technology for decentralized regions of the country**

**S21**

*Knyshev, V.V.; Shamanin, I.V.; Bedenko, S.V.; Lutsik, I.O.; Karengin, A.G.; Zorkin, A.I. (School of Nuclear Science & Engineering, National Research Tomsk Polytechnic Univ., Tomsk (RU)), e-mail: vvk28@tpu.ru*

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### **Study of the iodine hole effect in the RBMK-1000 reactor**

**S74;S73**

*Kozlov, S.E.; Boyarskij, M.S.; Glushkova, D.A. (Tomskij Politekhnicheskij Univ., Tomsk (RU)), e-mail: msb10@tpu.ru*

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## **Development of technology and equipment of nuclear fuel production**

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*Kropochev, E.V.; Pishchulin, V.P. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: messive@yandex.ru*

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**S11**

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**Improvement of the design of the unit for enriched uranium hexafluoride hydrolysis**

**S11**

*Kropochev, E.V.; Pishchulin, V.P. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: messive@yandex.ru*

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## **Multi-level system of criteria for evaluating the choice of various types of energy in the region**

**S24**

*Logutov, K.D.; Karelina, O.A.; Chufarov, V.I.; Timofeev, I.A.; Sadovskij, A.A. (Snezhinskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Snezhinsk (RU)), e-mail: klogutov@mail.ru, a.a.sadovsky@gmail.com*

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## **Calculation of neutron multiplication coefficient in high-temperature reactor based on the effects of double heterogeneity of dispersion nuclear fuel**

**S22**

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## **Problems of modeling the processes of interaction in the system Violator - Physical protection system**

**S98**

*Stepanov, B.P.; Makovej, S.I. (Tomskij Politehnicheskij Univ. IYaTSh, Tomsk (RU)), e-mail: Sofiia.makoviei@mail.ru*

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## **Neutron-physical study of nuclide composition change during repeated use of regenerated nuclear fuel**

**S11**

*Matvienko, M.A.; Prets, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: mam25@tpu.ru*

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## **Prospects of development of nuclear power in the Southern Urals, Russia and the world as a whole**

**S29**

*Makhmutova, A.R.; Parshikova, E.V. (Chelyabinskij Filial RANKhiGS, Chelyabinsk (RU)), e-mail: elizaveta.parshikova@mail.ru*

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### **Method of processing metal radioactive wastes**

**S12**

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### **Application of self-propagative high-temperature synthesis in production of materials for dispersion nuclear fuel**

**S36**

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**Technology for obtaining ammonia fertilizers from by-products of nuclear production**

**S12**

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### **Influence of nuclide composition of nuclear fuel during its recirculation on duration of BREST reactor fuel campaign**

**S11**

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### **Development of three-dimensional model of the human head based on tomographic data in DICOM format**

**S62**

*Prokop'ev, A.Eh.; Krasnykh, A.A.; Milojchikova, I.A.; Cherepennikov, Yu.M.; Stuchebrov, S.G. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: sasha1641996@gmail.com*

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### **Investigation of conditions of hydroxyapatite ultrafine particles obtaining**

**S36**

*Ryapolova, T.B.; Zelichenko, E.A.; Gurova, O.A.; Bryakunova, V.V. (Severskij Tekhnologicheskij  
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### **Simulation of the response function of a semiconductor detector**

**S46**

*Sabitova, R.R.; Ukrainets, O.A.; Kuznetsova, M.E. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Prozorova, I.V. (Inst. Atomnoj Ehnergii Natsional'nogo Yadernogo Tsentra Respubliki Kazakhstan, Kurchatov (KZ)), e-mail: radmila1@tpu*

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**S46**

*Simonova, A.V.; Gradoboev, A.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: gradoboev1@mail.ru, ainakim297@yandex.ru*

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## **Energy policy and national nuclear projects**

**S29**

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## **Modernization of the horizontal experimental channel of the IRT-T reactor for forming a thermal neutron beam during neutron capture therapy**

**S62**

*Smol'nikov, N.V.; Najmushin, A.G.; Lebedev, I.I.; Anikin, M.N. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: nvs38@tpu.ru*



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## **Alternative burnable poisons**

**S22**

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### **Reconversion of uranium hexafluoride to dioxide in air-methane plasma**

**S11**

*Tundeshev, N.V. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)), e-mail: tundeshev93@mail.ru*

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### **Separation of nickel isotopes in the process of filling a cascade of gas centrifuges with different number of stages**

**S07**

*Ushakov, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU); AO «PO EhKhZ», Krasnoyarskij Kraj, Zelenogorsk (RU)); Orlov, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Sovach, V.P. (AO «PO EhKhZ», Krasnoyarskij Kraj, Zelenogorsk (RU)), e-mail: ushakovaa2015@sibmail.com*

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**S07**

*Ushakov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU); Joint Stock Company «Production Association «Electrochemical Plant», Zelenogorsk (RU)); Orlov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU)); Sovach, V.P. (Joint Stock Company «Production Association «Electrochemical Plant», Zelenogorsk (RU)), e-mail: ushakovaa2015@sibmail.com*

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**Influence of changing feed flow value on germanium isotope separation in gas centrifuge cascade**

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*Ushakov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU); Joint Stock Company «Production Association «Electrochemical Plant», Zelenogorsk (RU)); Orlov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU)); Sovach, V.P. (Joint Stock Company «Production Association «Electrochemical Plant», Zelenogorsk (RU)), e-mail: ushakovaa2015@sibmail.com*

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**Estimation of flux densities of damaging neutrons and associated gamma-radiation in the RBMK-1000 core**

**S73**

*Cherdizov, Eh.K.; Bulakh, O.I. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: ekc1@tpu.ru*

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## **Determination of neutron-physical parameters of the RITM-200 low-power nuclear reactor**

**S21**

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## Production of test samples with desired Hounsfield indexes

**S62**

*Shkurupij, M.S.; Krasnykh, A.A.; Cherepennikov, Yu.M.; Stuchebrov, S.G. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)); Milojchkova, I.A. (FGAOU VO «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU)), e-mail: mss25@tpu.ru*

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## Comparison of the recording efficiency of ionizing radiation from various detectors

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### **Analysis and optimization of the mathematical model of iridium-192 production at industrial reactor**

**S07**

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### **Neutron-physical properties of materials obtained by the SHS method**

**S36;S11**

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## **Isolation of fragmentary palladium from products of radiochemical processing of WWER-1000 SNF at FSUE «MCC»**

**S12**

*Apal'kova, E.V.; Tikhomirov, D.V.; Zhabin, A.Yu.; Apal'kov, G.A. (FYaO FGUP «Gorno-Khimicheskij Kombinat», Zheleznogorsk (RU)), e-mail: atomlink@mcc.krasnoyarsk.su*

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### **Features of X-ray fluorescence detection of heavy metals in natural objects**

**S46**

*Ageeva, L.D.; Bogachuk, A.V.; Ivanova, I.I.; Muslimova, A.V.; Rekhtina, Yu.K.; Khokholkina, A.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: alexandrabogachuk83@gmail.com*

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### **Investigation of operating characteristics of anode plates in fluorine production**

**S37**

*Boltovskaya, N.A.; Bulanova, E.V.; Sofronov, V.L. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: nboltovskaya15@gmail.com*

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## **Development of a mathematic model of melting process with decontamination of radioactive metals**

**S12**

*Boltovskaya, N.A.; Kropochev, E.V.; Brendakov, V.N. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: nboltovskaya15@gmail.com*

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## **Intensification of sample preparation of biological specimens under the action of**

## **ultraviolet irradiation in order to determine iodide ions by ionometric method**

**S37**

*Bondarenko, A.I.; Burundukova, S.A.; Bogdanova, S.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: zvetoc@mail.ru*

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## **Development of technology and equipment for processing depleted uranium hexafluoride**

**S11**

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## **Electrochemical current sources and perspectives of their development**

**S25**

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## **General aspects of gadolinium production and application**

**S11**

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### **Methods for scandium oxide processing and obtaining high-purity scandium S36**

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## **Determination of rare earth elements by the method of AES-ICP in leach solutions of monosite concentrate**

**S37**

*Druzhinina, O.A.; Maksimova, A.A.; Molokov, P.B.; Molokova, T.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: n-tatyanka@mail.ru*

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## **Research of technological processes of uranium extraction**

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### **Use of inductively coupled plasma devices for determination of uranium in solutions**

**S37**

*Elkova, A.K.; Ipatova, D.S.; Molokova, T.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: n-tatyanka@mail.ru*

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### **Modeling of the process of plasma-chemical synthesis of oxide compositions from water-organic nitrate solutions for promising types of nuclear fuel**

**S11;S38**

*Zubov, V.V.; Karengin, A.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: kaberne1812@yandex.ru*



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MATRIX MATERIALS; COMPARATIVE EVALUATIONS

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## **Electron-microscopic study and investigation of the influence of activating additives on production of intermetallic compounds by SHS method**

**S36**

*Kosolapova, D.A.; Ursakij, O.V.; Tsirkunov, P.T.; Guzeeva, T.I.; Muslimova, A.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: t.guzeeva@yandex.ru*

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### **Investigation of rare earth element sulfates solubility**

**S37**

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### **Pilot operation of startup complex of experimental and demonstration center for reprocessing spent fuel from WWER-1000 reactor**

**S12**

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CALCINATION; SOLVENT EXTRACTION; CRYSTALLIZATION; EVAPORATION

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## **Processing of highly enriched and depleted uranium**

**S11**

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**Atomic-emission spectral analysis of technological products of pyrochemical processing of oxide melts**

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NEODYMIUM COMPOUNDS; DISSOLUTION; QUANTITATIVE CHEMICAL ANALYSIS;  
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**Features of extraction of rare earth element compounds from various raw materials**

**S37**

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## **Fire-resistant paint coating for transport packing container**

**S12**

*Popova, K.E.; Semenov, S.S.; Tsirkunov, P.T.; Kalaev, M.E.; Guzeev, V.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: svinks13@gmail.com*

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## **The study of titanate matrices for immobilization of HLW**

**S36**

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## **On possibility of uranium nitride synthesis from uranium hexafluoride in nonequilibrium plasma**

**S11**

*Semenov, S.S.; Tsirkunov, P.T.; Kalaev, M.E.; Guzeev, V.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: svinks13@gmail.com*

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### **Extraction of rare earths from leucoxene concentrate**

**S37**

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### **Comparative evaluation of methods for extracting scandium from scandium-containing raw materials**

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*Tolmachev, E.I.; Makaseev, Yu.N. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: tolmachev.e.i@yandex.ru*

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## **Dissolution of a mixture of uranium and plutonium compounds as the primary stage of the return of the uranium and plutonium in the production cycle of nitride fuel**

**S11**

*Fedorov, M.S.; Ushakov, D.A. (AO «SKhK», Seversk (RU)), e-mail: maxwin1@list.ru*

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## **Method for uranium and plutonium separation from solutions containing their mixture**

**S11**

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RATIO; PH VALUE

---

## **Investigation of the influence of alloying components and sintering temperature on characteristics Nd-Fe-B magnets**

**S36**

*Khorokhorin, V.S.; Makaseev, Yu.N.; Sofronov, V.L. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: xoroxor@sibmail.com*

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## **Redistribution of oxygen atoms in dispersion fuel of high-temperature reactor plant during irradiation**

**S11**

*Shagalov, V.V.; Knyshev, V.V.; Shamanin, I.V.; Malin, A.V.; Bedenko, S.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: vvk28@tpu.ru*

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## **Separation of xenon and krypton using nanoporous adsorbents**

**S07**

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Razdelenie ksenona i kriptona s ispol'zovaniem nanoporistykh adsorbentov

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## **Development of electrode equipment for sulfuric acid heating**

**S42**

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### **Efficiency of plugs application in uranium mining by the method of borehole underground leaching**

**S42**

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### **Software for creating technical and economic models for rational mining of a group of uranium deposits**

**S11;S97**

*Valitov, S.N.; Istomin, A.D.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI,*

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**System for monitoring the level of reservoir water in observation wells of DDS for LRW**

**S12**

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### **Simplified mathematical model of fuel elements assembly line**

**S11**

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### **Automation of control of technological wells debits during of uranium mining using the ISL method**

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### **Numerical simulation of the temperature field in a tungsten deposition reactor S36**

*Dem'yanov, A.A.; Brendakov, V.N. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU))*

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Chislennoe modelirovanie polya temperatury v reaktore osazhdeniya vol'frama

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STOICHIOMETRY; MATHEMATICAL MODELS; TEMPERATURE DEPENDENCE

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### **Geological-mathematical model of operational horizons of the LRW DBP of branch «Severskij» FSUE «NO RAW»**

**S12**

*Kokorev, O.N. (STI NIYaU MIFI, Seversk (RU); FGUP «NO RAO» Filial «Severskij», Seversk (RU)); Noskov, M.D.; Istomin, A.D.; Cheglov, A.A. (STI NIYaU MIFI, Seversk (RU)); Danilov,*

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**Natural convection of gaseous UF<sub>6</sub> in a vertical cylindrical container**

**S42**

Orlov, A.A.; Malyugin, R.V.; Kotel'nikova, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: malyugin@tpu.ru

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## **Investigation of the dependence of the reactivity reserve of the Tomsk typical research reactor on beryllium reflector poisoning**

**S21**

*Koshlyak, D.O.; Chertkov, Yu.B. (Tomskij Politehnicheskij Univ., Tomsk (RU)), e-mail: koshlyakdo@gmail.com*

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## **Algorithms for constructing single- and double-row schemes for opening a narrow elongated ore body using the ISL method**

**S11**

*Nesterov, A.D.; Gutsul, M.V.; Noskov, M.D.; Cheglov, A.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: B00blegum@mail.ru*

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## **Operation of the operator's information system in case of design and beyond-design accidents**

**S21**

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**Application of UMAV for solving narrow focused tasks of nuclear industry**  
**S98**

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**Simplified mathematical model of fuel elements assembly line in fuel assemblies**  
**for reactor plant**

**S11**

*Savinov, M.M.; Gubar', M.E.; Pletnev, A.O. (Tomskij Politekhnikeskij Univ. NI TPU, Tomsk (RU)), e-mail: maxim.savinov.97@mail.ru*

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### **Determination of the effective operating mode of an operational unit as a problem of multidimensional optimization**

**S11**

*Serbin, A.V.; Sakirko, G.K.; Gutsul, M.V.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: serbin-96@mail.ru*

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### **Numerical simulation of a screw precipitation centrifuge**

**S42**

*Solomakha, A.E.; Brendakov, V.N. (Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU)), e-mail: solomahaartem@yandex.ru*

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## **Development of a mathematical model of the state of the atmosphere in boxes connected by a network of pipelines**

**S42**

*Fadeeva, N.A.; Egorova, O.V.; Liventsova, N.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)),  
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Razrabotka matematicheskoy modeli sostoyaniya atmosfery v boksakh, svyazannykh set'yu  
truboprovodov

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**Influence of acidification regime on geo-technological parameters of block mining during underground leaching**

**S11**

*Shamraeva, A.O.; Terovskaya, T.S.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: kurgaa@sibmail.com*

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Vliyanie rezhima zakisleniya na geotekhnologicheskie pokazateli otrabotki blokov pri podzemnom vyshchelachivanii

p. 165

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ACIDIFICATION; EFFICIENCY; MATHEMATICAL MODELS; COMPARATIVE

EVALUATIONS; NUMERICAL SOLUTION

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**Use of integrated HKED densitometer for monitoring input products during spent fuel processing**

**S12**

*Shcherbakova, K.K.; Romadova, S.I.; Galuzin, D.D.; Levunin, A.S.; Naumov, V.N. (FGUP «PO «Mayak», Ozersk (RU)), e-mail: cpl@po-mayak.ru*

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Ispol'zovanie kompleksnogo densitometra HKED dlya kontrolya vkhodnykh produktov pri pererabotke OYaT

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CONCENTRATION RATIO; GAMMA SPECTROSCOPY; X-RAY FLUORESCENCE  
ANALYSIS; SOLUTIONS; CALCULATION METHODS

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## **Development of automated control system for the technological process of uranium mining using the ISL method**

**S42**

*Yanova, A.O.; Shchipkov, A.A.; Yurov, A.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: yanovanastasiya@gmail.com*

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Razrabotka avtomatizirovannoj sistemy upravleniya tekhnologicheskim protsessom dobychi urana metodom SPV

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SYSTEMS; ECOLOGY; WELLS; PIPES; ELECTRICAL EQUIPMENT

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## **Bio-technologies in the nuclear industry: prospect of development**

**S11**

*Voronina, K.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU); Munitsipal'noe Byudzhethnoe Obshcheobrazovatel'noe Uchrezhdenie «Srednyaya Obshcheobrazovatel'naya Shkola No. 196», Seversk (RU)), e-mail: svinks13@gmail.com, e-mail: voroninaksusha55@mail.ru*

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Biotekhnologii v atomnoj ehnergetike: perspektivy razvitiya

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URANIUM ISOTOPES; SOLUBILITY; SULFURIC ACID; OXIDATION;  
CONCENTRATION RATIO; REDOX REACTIONS; MICROORGANISMS

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## **Regularities in dynamics of soil radon and the rate of its release into the atmosphere**

**S54**

*Ivanov, D.A.; Ngo, T.T.; Yakovleva, V.S. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Yakovlev, G.A. (MBOU Litsej pri Tomskom Politekhnikeskom Univ., Tomsk (RU)), e-mail: vsyakovleva@tpu.ru*

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Zakonomernosti v dinamike pochvennogo radona i skorosti ego vykhoda v atmosferu

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### **Comparison of stabilized zirconium oxides nanopowders manufactured by different chemical technologies**

**S36**

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Sravnienie nanoporoshkov stabilizirovannogo oksida tsirkoniya, izgotovlennykh po raznym khimicheskim tekhnologiyam

p. 175

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### **Radon isotopes as indicators atmospheric dynamic processes**

**S54**

*Yakovlev, G.A. (MBOU Litsej pri Tomskom Politekhnikeskom Univ., Tomsk (RU)); Nguen, T.Kh.; Cherepnev, M.S.; Yakovleva, V.S. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: vsyakovleva@tpu.ru*

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Izotopy radona kak indikatornykh atmosferykh dinamicheskikh protsessov

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EARTH ATMOSPHERE; RADON ISOTOPES; RADIATION MONITORING;

COMPARATIVE EVALUATIONS; SEASONAL VARIATIONS; ANNUAL VARIATIONS

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## **XI Conference on reactor materials science dedicated to the 55th anniversary of the JSC «SSC RIAR» Reactor Materials Testing Complex. Abstracts**

**S22;S36**

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aksionernoe Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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LEADING ABSTRACT; MEETINGS; MECHANICAL PROPERTIES; PHYSICAL RADIATION EFFECTS; FUEL ELEMENTS; FUEL ASSEMBLIES; REACTOR MATERIALS; COOLANTS; NUCLEAR FUELS

The materials of the XI Conference on reactor materials science dedicated to the 55th anniversary of the Department of reactor materials science of JSC “SSC RIAR”, which was held May 27–31, 2019 in the city of Dimitrovgrad, Ulyanovsk Region (Russia), are presented. The reports presented the research results of the mechanical properties of the fuel cladding, spent in the various nuclear reactor cores, the results of recent studies of radiation phenomena such as radiation swelling, low-temperature radiation hardening and embrittlement of austenitic steels.

The reactor tests of Russian tolerant fuels with various combinations of shell materials and the fuel matrix under comparative conditions of ion-saturated coolants of nuclear power plants are discussed. Conference participants shared their experience in common use of oxide, nitride fuels and uranium metal in fast neutron reactors, discussed various options (design and technological solutions) for the joint use of ceramic (oxide, nitride) fuel and uranium metal in fuel rods, fuel assemblies, and BN-reactor core, questions of the influence of the irradiation time on the properties and structure of irradiated steels

Представлены материалы XI конференции по реакторному материаловедению, посвящённой 55-летию Отделения реакторного материаловедения АО «ГНЦ НИИАР», проходившей 27–31 мая 2019 года в городе Димитровграде Ульяновской области (Россия). Заслушаны доклады, где представлены результаты исследований механических свойств оболочек элементов тепловыделяющих сборок (ТВС), отработавших в составе активных зон различных ядерных реакторов, результаты последних исследований радиационных явлений, таких как радиационное распухание, низкотемпературное радиационное упрочнение и охрупчивание аустенитных сталей. Обсуждаются реакторные испытания российского толерантного топлива с различными сочетаниями материалов оболочки и топливной матрицы в сравнительных условиях иононасыщенных теплоносителей ЯЭУ. Участники конференции поделились опытом совместного использования в реакторах на быстрых нейтронах оксидного, нитридного топлива и металлического урана, обсудили различные варианты (конструктивные и технологические решения) совместного использования керамического (оксидного, нитридного) топлива и металлического урана в твэлах, ТВС, активных зонах БН-реакторов, вопросы влияния длительности облучения на свойства и структуру облученных сталей

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## **Key results of post-irradiation examinations performed at JSC «SSC RIAR» in 2014–2018**

**S21;S36**

*Zvir, E.A.; Zhitelev, V.A.; Zakharov, A.V.; Kryukov, F.N.; Shishin, V.Yu. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

### **XI Conference on reactor materials science**

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Osnovnye rezul'taty poslereaktornykh issledovaniy, vypolnennykh v AO «GNTs NIIAR» v 2014–2018 godakh

p. 5-6, 7-8

(RU, EN)

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**The expectations of the fuel vendor in the field of reactor material science of nuclear fuel, the results of the cooperation and material science aspects of future research in the midterm perspective**

**S21**

*Ugryumov, A.V. (AO «TVEhL», Moscow (RU))*

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Ozhidaniya postavshchika v oblasti reaktornogo materialovedeniya yadernogo topliva, rezul'taty sotrudnichestva i materialovedcheskie aspekty dal'nejshikh issledovaniy v srednesrochnoj perspektive

p. 8-10, 10-13

(RU, EN)

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**Corrosion behavior of fuel rod claddings of the VVER**

**S21;S37**

*Novikov, V.V.; Kon'kov, V.F. (AO «VNIINM», Moscow (RU))*

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27-31 May 2019

XI konferentsiya po reaktornomu materialovedeniyu

Korrozionnoe povedenie obolochek tvehlov reaktorov VVEhR

p. 13, 13-14

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### **Analysis of the directions to create an accident tolerant fuel**

**S22**

*Kalin, B.A.; Tenishev, A.V.; Polyanskij, A.A. (FGAOU VO «NIYaU «MIFI», Moscow (RU))*

#### **XI Conference on reactor materials science**

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Analiz napravlenij sozdaniya tolerantnogo topliva

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ACCIDENT-TOLERANT NUCLEAR FUELS; PLANNING; FUEL ELEMENTS; FEASIBILITY STUDIES; REACTOR CORES; RESEARCH PROGRAMS

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### **Development of a new swelling position for PWR austenitic internals, reflecting much lower swelling compared to higher temperature fast reactor experience**

**S36**

*Garner, F.A. (NRNU «MEPhI», Dept. of Materials Science, Moscow (RU))*

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XI konferentsiya po reaktornomu materialovedeniyu

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**The damage and fracture mechanisms of austenitic steels in the irradiated conditions typical for nuclear reactors of various types**  
**S21;S36**

*Margolin, B.Z.; Sorokin, A.A.; Buchatskij, A.A.; Shvetsova, V.A.; Minkin, A.I.; Pirogova, N.E. (FGBU «NITs «Kurchatovskij Inst.» — TsNII KM «Prometej»», Sankt-Peterburg (RU))*

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EMBRITTLEMENT; SWELLING; WWER TYPE REACTORS; STAINLESS STEELS; PHYSICAL RADIATION EFFECTS; REACTOR COMPONENTS; NUCLEAR DAMAGE

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**Current status and plans for substantiation of mixed nitride fuel for fast neutron reactors**

**S22**

*Skupov, M.V. (AO «VNIINM», Moscow (RU)); Zabad'ko, L.M. (ChU «ITTsP “Proryv”», Moscow (RU))*

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reaktorov na bystrykh nejtronakh

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MIXED NITRIDE FUELS; PLANNING; VERIFICATION; FAST REACTORS; POST-IRRADIATION EXAMINATION; PERFORMANCE TESTING

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### **Comparative analysis of post-irradiation examination results of mixed nitride fuel irradiated in BOR-60 and BN-600 reactors: influence of irradiation parameters on fuel life limiting factors**

**S21**

*Grachev, A.F.; Zabud'ko, L.M. (ChU «ITTsP “Proryv”», Moscow (RU)); Kryukov, F.N. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Porollo, S.I. (AO «GNTs RF — FEhI», Obninsk (RU)); Skupov, M.V. (AO «VNIINM», Moscow (RU))*

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Sravnitel'nyj analiz rezul'tatov poslereaktornykh issledovaniy tvehlov ehksperimental'nykh teplovydelyayushchikh sborok so smeshannym nitridnym toplivom, obluchennykh v reaktorakh BOR-60 i BN-600: vliyanie parametrov ehkspluatatsii na osnovnye povrezhdayushchie faktory v tvehle

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BOR-60 REACTOR; BELOYARSK-3 REACTOR; MIXED NITRIDE FUELS; POST-IRRADIATION EXAMINATION; SPENT FUEL ELEMENTS; MIXED OXIDE FUELS; COMPARATIVE EVALUATIONS



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**Phase transformations in irradiated 42CrNiMo alloy after anneals at elevated temperatures, and also after rapid annealing, simulating the maximum design basis accident**

**S36**

*Gurovich, B.A.; Frolov, A.S.; Mal'tsev, D.A.; Fedotova, S.V. (FGBU «NITs "Kurchatovskij Inst."», Moscow (RU)); Kuleshova, E.A. (FGBU «NITs "Kurchatovskij Inst."», Moscow (RU)); FGAOU VO «NIYaU "MIFI"», Moscow (RU))*

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Fazovye prevrashcheniya v obluchennom splave 42KhNM posle otzhigov pri povyshennykh temperaturakh, a takzhe posle bystrogo otzhiga, imitiruyushchego usloviya maksimal'noj proektnoj avarii

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**Main properties of the Ni-Cr alloy 42KhNM and the prospects of its implementation as a construction material of VVER elements**

**S36**

*Kulakov, G.V.; Ershov, S.A.; Konovalov, Yu.V.; Leont'eva-Smirnova, M.V.; Rechitskij, V.N.; Skupov, M.V.; Fedotov, V.V. (AO «VNIINM», Moscow (RU)); Shishin, V.Yu.; Shel'dyakov, A.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Upgrading of reactor cores for nuclear icebreakers based on operational experience and PIE**

**S22**

*Samojlov, O.B.; Morozov, O.A.; Lepekhin, A.N.; Silaev, V.Yu.; Zakharychev, A.A.; Vasil'ev, V.V. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU))*

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## **Irradiation projects on structural materials in China experimental fast reactor**

**S22**

*Long, B.; Huang, Ch. (CIAE, Beijing (CN))*

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NEUTRON FLUX; NEUTRON SPECTRA; ENERGY SPECTRA

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## **E110-M alloy fuel rod claddings in-reactor tests in water-cooled reactors and post-irradiation examination results**

**S21;S36;S22**

*Shevyakov, A.Yu.; Markelov, V.A.; Novikov, V.V.; Saburov, N.S.; Gusev, A.Yu.; Kon'kov, V.F.; Peregud, M.M. (AO «VNIINM», Moscow (RU))*

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Reaktornye ispytaniya obolochek tvehlav iz splava Eh110-M v vodookhlazhdaemykh reaktorakh i rezultaty poslereaktornykh issledovaniy

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FUEL ELEMENTS; ZIRCONIUM ALLOYS; FUEL CANS; POST-IRRADIATION  
EXAMINATION; METALLOGRAPHY; WWER TYPE REACTORS; REACTOR  
MATERIALS

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## **Comparative analysis of the state of E110 and E110 opt fuel rod claddings spent**

## **up to 49.6–63.7 MW·day/kg U**

**S36;S22**

*Stozhuk, A.V.; Zhitelev, V.A.; Volkova, I.N.; Goncharenko, Yu.D.; Khrenov, A.S.; Shevlyakov, G.V.; Bokov, A.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Sravnitel'nyj analiz sostoyaniya tvehlov s obolochkami iz splavov Eh110 i Eh110 opt., otrabotavshikh do vygoraniya topliva 49,6–63,7 mvt·sut/kg urana

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## **Research of high-temperature oxidation behavior of E110 opt. and E110-M sponge based zirconium alloys**

**S36**

*Mal'gin, A.G.; Markelov, V.A.; Novikov, V.V.; Shelepov, I.A. (AO «VNIINM», Moscow (RU)); Donnikov, V.E.; Latunin, V.I. (OAO «VTI», Moscow (RU))*

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Issledovanie vysokotemperaturnogo okisleniya obolocheknykh trub iz splavov Eh110 opt. i Eh110-M na osnove tsirkonievoj gubki

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ZIRCONIUM ALLOYS; REACTOR MATERIALS; TEMPERATURE RANGE 0400-1000 K;  
OXIDATION; DUCTILITY; MATERIALS TESTING; METALLOGRAPHY

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### **High temperature oxidation of the alloy E110 with coatings based on Fe-Cr-Ni and Cr-Ni alloys**

**S36**

*Yashin, A.S.; Kalin, B.A.; Volkov, N.V.; Safonov, D.A.; Dzhumaev, P.S. (FGAOU VO «NIYaU “MIFI”», Moscow (RU)); Novikov, V.V.; Kuznetsov, V.I.; Fedotov, P.V. (AO «VNIINM», Moscow (RU)); Mokrushin, A.A.; Polunin, K.K. (FGUP «NII “NPO «Luch»”», Podol'sk (RU))*

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Vysokotemperaturnoe okislenie splava Eh110 s pokrytiyami na osnove splavov Fe-Cr-Ni i Cr-Ni  
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TEMPERATURE RANGE 1000-4000 K; OXIDATION; REACTOR MATERIALS

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### **Condition of spacer grids in the VVER-1000 fuel assemblies operated for three to five fuel cycles**

**S21**

*Volkova, I.N.; Zhitelev, V.A.; Stozhuk, A.V.; Shishalova, G.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Sostoyanie distantsioniruyushchikh reshetok, otrabotavshikh v sostave teplovydelyayushchikh sborok reaktora VVEhR-1000 v techenie trekh — pyati toplivnykh tsiklov

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CORROSION PROTECTION; EMBRITTLEMENT; POST-IRRADIATION EXAMINATION

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### **Modelling of the elongation of $\text{UO}_2\text{-Gd}_2\text{O}_3$ fuel rods of VVER-1000**

**S21;S37**

*Novikov, V.V.; Kuznetsov, V.I.; Nesterov, B.I.; Dem'yanov, P.G.; Eremanko, A.S. (AO «VNIINM», Moscow (RU))*

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Modelirovanie udlineniya uranogadolinievyykh tvehlov reaktora VVEhR-1000

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GADOLINIUM OXIDES; POST-IRRADIATION EXAMINATION; WWER TYPE  
REACTORS; SIMULATION; ELONGATION

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### **In-pile creep of uranium-gadolinium oxide fuel of the type $(\text{U}_{0.927}, \text{Gd}_{0.073})\text{O}_{2-x}$ at a temperature of 550–900 °**

**S36**

*Fedotov, A.V.; Mikheev, E.N.; Rysev, N.M. (AO «VNIINM», Moscow (RU)) (and others)*

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Reaktornaya polzuchest' uranogadolinievogo oksidnogo topliva tipa (U<sub>0.927</sub>, Gd<sub>0.073</sub>)O<sub>2-x</sub> pri temperature 550–900 °

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(RU, EN)

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CREEP; MIXED OXIDE FUELS; URANIUM OXIDES; GADOLINIUM OXIDES; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; MICROSTRUCTURE

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## **Interim examinations of experimental fuel rods tested in the MIR reactor under PWR conditions**

**S21**

*Izhutov, A.L.; Burukin, A.V.; Vladimirova, O.N.; Dolgov, A.I.; Il'in, P.A.; Kalygin, ; Mokeichev, M.A.; Ovchinnikov, V.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Rezul'taty promezhutochnykh issledovaniy ehksperimental'nykh tvehlov, ispytannykh v reaktore MIR v usloviyakh PWR

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(RU, EN)

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MIR REACTOR; PWR TYPE REACTORS; FUEL ELEMENTS; BURNUP; CORROSION RESISTANCE; REACTOR MATERIALS; POST-IRRADIATION EXAMINATION

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## **Study of the behavior of VVER-1000 fuel rods in support of power ramp regimes**

**S21**

*Novikov, V.V.; Kuznetsov, V.I.; Nesterov, B.I. (AO «VNIINM», Moscow (RU)); Izhutov, A.L.; Eshcherkin, A.G.; Ovchinnikov, V.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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WWER TYPE REACTORS; FUEL ELEMENTS; FUEL PELLETS; BURNUP; POST-IRRADIATION EXAMINATION; PERFORMANCE TESTING; TRANSIENTS

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**Studying of the VVER-1000 fuel rods behaviour under the loss-of-coolant-accident (LOCA) conditions: in-pile MIR-LOCA/45 and MIR-LOCA/69 tests**  
**S21**

*Alekseev, A.V.; Goryachev, A.V.; Dreganov, O.I. (AO «GNTs NIIAR», Dimitrovgrad (RU)) (and others)*

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**Study of stained shells of the fuels of reactor type PWR with protective coating in conditions characteristic for an accident with heat carrier loss**

**S21**

*Urusov, A.A.; Mokrushin, A.A.; Soldatkin, D.M.; Polunin, K.K. (FGUP «NII «NPO “Luch”», Podol'sk (RU))*

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p. 69-71, 71-72

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**Main efforts and plans for modernization of the nuclear fuel structure and materials for VVER RP**

**S21**

*Kushmanov, S.A. (AO «OKB GIDROPRESS», Podol'sk (RU))*

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### **Changes in the geometry of VVER-1000 TVS-2 and TVS-2M and their components under operation**

**S21**

*Shevlyakov, G.V.; Stozhuk, A.V.; Sidorenko, O.G.; Sagalov, S.S.; Khrenov, A.S.; Bokov, A.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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### **Development and application of techniques for evaluation of coolant activity during operation of VVER power units**

**S21**

*Kalinichev, P.M.; Evdokimov, I.A.; Likhanskij, V.V.; Afanas'eva, E.Yu.; Khromov, A.G. (AO «GNTs RF TRINITI», Troitsk (RU))*

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## **Integrity testing of the TVSA-ALFA fuel elements by gamma-spectrometry of the gas plenum**

**S22**

*Sagalov, S.S.; Zhitelev, V.A.; Shevlyakov, G.V.; Stozhuk, A.V.; Teplov, V.G.; Il'ina, E.G. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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**Effect of neutron irradiation in the VVER-1000 reactor on the characteristics of secondary phases in zirconium alloys E110 and E635**

**S21;S36**

*Obukhov, A.V.; Kobylanskiy, G.P.; Sagalov, S.S.; Belozerova, A.R. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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**Engineering-economic analysis of the use of accident tolerant fuel in nuclear power engineering**

**S22**

*Kharitonov, V.V.; Kalin, B.A.; Silenko, A.N.; Ul'yanin, Yu.A. (FGAOU VO «NIYaU “MIFI”», Moscow (RU))*

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ECONOMICS; COMPARATIVE EVALUATIONS; COST

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## **Analysis of VVER-1000 fuel rods elongation under thermal tests simulating dry storage conditions**

**S21**

*Kobylyanskij, G.P.; Mazaev, A.O.; Zvir, E.A.; Il'in, P.A.; Obukhov, A.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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RODS; FUEL CANS; CREEP

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## **Modeling of fuel claddings mechanical properties under dry storage conditions**

**S22**

*Likhanskij, V.V.; Aliev, T.N.; Kolesnik, M.Yu. (AO «GNTs RF TRINITI», Troitsk (RU)) (and others)*

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### **Phase and structural transformations in the fuel cladding rods from E110 alloy in the conditions of dry storage**

**S36**

*Frolov, A.S.; Gurovich, B.A.; Mal'tsev, D.A.; Safonov, D.V.; Alekseeva, E.V. (FGBU «NITs “Kurchatovskij Inst.”», Moscow (RU)); Kuleshova, E.A. (FGBU «NITs “Kurchatovskij Inst.”», Moscow (RU)); FGАОU VO «NIYaU “MIFI”», Moscow (RU))*

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### **Determination of delayed hydride cracking parameters to assess the probability of their depressurization during operation and dry storage**

**S22;S36**

*Saburov, N.S.; Markelov, V.A.; Bekrenev, S.A.; Shelepov, I.A.; Gusev, A.Yu.; Goncharov, I.M. (AO «VNIINM», Moscow (RU))*

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Opreделение параметров замедленного гидридного растрескивания оболочек твэлов для отsenki veroyatnosti ikh razgermetizatsii pri ehkspluatatsii i sukhom khraneniі otrabotavshego yadernogo topliva

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**Modelling the effects of nuclear transmutation in the study of the physical properties of zirconium alloys****S36**

*Belozeroва, A.R.; Belozеров, S.V.; Shamardin, V.K.; Kobyljanskij, G.P. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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ZIRCONIUM BASE ALLOYS; MOLYBDENUM ADDITIONS; ANISOTROPY; NEUTRON FLUENCE; SIMULATION; PHYSICAL RADIATION EFFECTS

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**Modernization of models describing behavior of mixed uranium-plutonium nitride fuel in code «KORAT» and their verification on experimental data**  
**S11**

*Khoruzhij, O.V.; Zborovskij, V.G.; Elkin, N.N. (AO «GNTs RF TRINITI», Troitsk (RU)) (and others)*

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MIXED NITRIDE FUELS; K CODES; STRESSES; STRAINS; FUEL RODS; SIMULATION; PERFORMANCE TESTING

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**Specific details of swelling in uranium-plutonium nitride fuel used for fabrication of helium gas- and liquid metal-bonded test fuel rods**

**S36**

*Belyaeva, A.V.; Kryukov, F.N.; Nikitin, O.N.; Kuz'min, S.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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### **The method of the uranium sesquinitride residual amount for determining in mixed nitride nuclear fuel**

**S38**

*Krivov, M.P.; Kireev, G.A.; Davydov, A.V. (AO «VNIINM», Moscow (RU)); Tennishev, A.V. (FGAOU VO «NIYaU “MIFI”», Moscow (RU))*

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p. 111-113, 114-116

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### **Uranium-zirconium carbonitride fuel: preparation for studies at critical assemblies and in-pile tests**

**S21**

*Bakhin, A.N.; Tukhvatulina, Sh.T.; Galev, I.Eh. (FGUP «NII «NPO “Luch”», Podol'sk (RU)) (and others)*

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312 p.

NUCLEAR FUELS; CARBONITRIDES; ZIRCONIUM COMPOUNDS; URANIUM COMPOUNDS; ZERO POWER REACTORS; MONTE CARLO METHOD

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**Experience and feasibility of co-using oxide and nitride fuels and metal uranium in BN-reactors**

**S21**

*Golovchenko, Yu.M. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Skupov, M.V. (AO «VNIINM», Moscow (RU))*

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Opyt i vozmozhnosti sovместnogo ispol'zovaniya v reaktorakh na bystrykh nejtronakh oksidnogo, nitridnogo topliva i metallicheskogo urana

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URANIUM; BURNUP; CERAMICS; FEASIBILITY STUDIES; PERFORMANCE TESTING

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## **Condition and development direction of cores of ice-breaker NPP and SMR**

**S22**

*Romanov, A.I.; Papotin, V.Yu.; Lepekhin, A.N.; Zakharychev, A.A.; Petrov, S.G. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU))*

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REACTOR CORES; NUCLEAR SHIPS; DISPERSION NUCLEAR FUELS; FUEL RODS;  
OPTIMIZATION; REACTOR PLANNING

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## **A core for small power nuclear power plants**

**S22**

*Zakharychev, A.A.; Papotin, V.Yu.; Stadnik, D.M. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU)); Shel'dyakov, A.A. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Korovushkin, S.I. (PAO «MSZ», Ehlektrostal' (RU))*

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### **Effect of irradiation on physical and mechanical properties and structure of chromium-nickel alloy 42KhNM**

**S36**

*Shel'dyakov, A.A.; Shishin, V.Yu.; Yakovlev, V.V. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Kulakov, G.V.; Konovalov, Yu.V. (AO «VNIINM», Moscow (RU))*

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### **Pre-reactor tests of fragments of uranium-zirconium metal fuel rods obtained during the modernization of the reactor core IVG.1M**

**S21**

*Polunin, K.K.; Bakhin, A.N.; Zajtsev, D.A.; Soldatkin, D.M.; Solntsev, V.A. (FGUP «NII “NPO «Luch»”), Podol'sk (RU))*

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Doreaktornye ispytaniya fragmentov uranotsirkonievyykh metallicheskikh tvehlov v khode konversii aktivnoj zony reaktora IVG.1M  
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RESEARCH AND TEST REACTORS; HEAT TREATMENTS; POROSITY; SWELLING;  
TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; REACTOR  
MATERIALS

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## **Development of technology of manufacturing TVELs with small harmful absorption for FAs of a modernized active zone of the SM reactor**

**S21**

*Sannikov, E.L.; Lemekhov, V.V.; Kolosovskij, V.G.; Korotkov, R.S.; Lupanina, E.L. (PAO «MSZ», Ehlektrostal' (RU))*

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Razrabotka tekhnologii izgotovleniya tvehlov s malym vrednym pogloshcheniem dlya teplovydelyayushchikh sborok modernizirovannoj aktivnoj zony reaktora SM

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312 p.

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CAPTURE; PERFORMANCE TESTING; FEASIBILITY STUDIES

**Examination of experimental dispersed fuel compositions to justify the performance of low neutron poisoning fuel rods to be used in the SM reactor**  
**S22**

*Gil'mutdinov, Ilgiz F.; Shishin, V.Yu.; Kryukov, F.N.; Pimenov, V.V.; Efimov, E.I. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Rezul'taty issledovaniya opytnykh dispersionnykh toplivnykh kompozitsij dlya obosnovaniya rabotosposobnosti tvehlov s malym vrednym pogloshcheniem dlya reaktora SM

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REACTOR CORES; SWELLING; POISONING; FEASIBILITY STUDIES; EFFICIENCY

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**Post irradiation examinations of three TVEL fuel rods irradiated in Ringhals NPP during three reactor cycles**

**S36**

*Lafchiev, K.I.; Johnson, K.D.; Jademas, D.G. (Studsvik Nuclear AB, Studsvik (SE)); Shevyakov, A.Yu. (JSC «VNIINM», Moscow (RU)); Dolgov, A.B.; Ugryumov, A.V. (JSC «TVEL», Moscow (RU))*

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**Results of post-irradiation examinations of the sponge-based E110 opt. alloy operated as fuel cladding material in alternative TVSA-ALPHA up to attaining a burnup of 42 MW·day/kg U to establish the experimental databank in support of Russian fuel licensing for PWR plants**

**S21**

*Goncharenko, Yu.D.; Eremin, S.G.; Chertopyatov, E.V.; Obukhov, A.V.; Bulanova, T.M.; Shishalova, G.V. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Shevyakov, A.Yu.; Bekrenev, S.A.; Novikov, V.V.; Markelov, V.A. (AO «VNIINM», Moscow (RU))*

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Rezultaty materialovedcheskikh issledovaniy obolochki tvehla iz splava Eh110 opt. na osnove gubki, otrabotavshego v sostave TVSA-ALFA do vygoraniya 42 mvt·sut/kg urana, dlya sozdaniya banka ehksperimental'nykh dannykh i litsenzirovaniya rossijskogo topliva dlya AEHS s reaktorami PWR

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---

**Measurement of hydrogen content in oxide films and metal of water-cooled reactor FA components made of zirconium alloys**

**S21**

*Shishalova, G.V.; Kobylyanskij, G.P.; Novikov, A.M.; Volkova, I.N. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Opređenje soderzhaniya vodoroda v oksidnykh plenkakh i v metalle ehlementov konstruksij iz tsirkonievyykh splavov teplovydelyayushchikh sborok vodookhlazhdaemykh yadernykh ehnergeticheskikh ustanovok

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### **Problems of examining uranium and plutonium dioxides using scanning electronic microscopy, possible ways to solve the problems, selecting optimum mode for examination of MOX-fuel for BN-800 reactors**

**S21**

*Mal'tsev, A.A.; Litvinova, M.A. (FGUP «PO "Mayak"», Ozersk (RU))*

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Problemy issledovaniya dioksidov urana i plutoniya s pomoshch'yu skaniruyushchej ehlektronnoj mikroskopii, vozmozhnye sposoby ikh resheniya, podbor optimal'nogo rezhima kontrolya smeshannogo uranoplutoniyevo go topliva dlya reaktora BN-800

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## **Water chemistry of MIR reactor loops to test new fuels and materials**

**S21**

*Izhutov, A.L.; Petelin, A.L.; Svistunov, V.A.; Vladimirova, O.N.; Vasil'ev, V.I.; Dvojnishnikova, S.A.; Demidovskaya, E.O. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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MIR REACTOR; WATER CHEMISTRY; IN PILE LOOPS; ACCIDENT-TOLERANT NUCLEAR FUELS; REACTOR SAFETY; EFFICIENCY

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## **Structural materials for fast neutron reactors with sodium and lead coolants**

**S21**

*Leont'eva-Smirnova, M.V.; Skupov, M.V.; Nikitina, A.A.; Naumenko, I.A.; Mitrofanova, N.M. (AO «VNIINM», Moscow (RU))*

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Konstruktsionnye materialy dlya reaktorov na bystrykh nejtronakh s natrievym i svintsovym teplonositelem

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FAST REACTORS; SWELLING; FUEL CANS; LIQUID METAL COOLED REACTORS;  
CHROMIUM-NICKEL-MOLYBDENUM STEELS; ATOMIC DISPLACEMENTS

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## **Role of JSC «OKB “Gidropress”», JSC “SSC RIAR” and CRISM “Prometey” in international project TACIS-2002 (R2/01.02)**

**S22**

*Komolov, V.M.; Evdokimenko, V.V.; Piminov, V.A. (AO «OKB “Gidropress”», Podol'sk (RU)) (and others)*

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Rol' AO «OKB “Gidropress”», AO «GNTs NIIAR» i FGUP «TsNII KM “Prometey”» v mezhdunarodnom proekte TACIS-2002 (R2/01.02)

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WWER TYPE REACTORS; ROSATOM; IAEA; INTERNATIONAL COOPERATION;  
TECHNOLOGY TRANSFER; MATERIALS TESTING; POST-IRRADIATION  
EXAMINATION

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## **Investigation of fracture toughness of the PVI metal after 45 years operation in VVER-440 reactor of Novovoronezh NPP**

**S36**

*Minkin, A.I.; Margolin, B.Z.; Fomenko, V.N.; Smirnov, V.I.; Varovin, A.Ya.; Pirogova, N.E.; Shvetsova, V.A. (NITs “Kurchatovskij Inst.” — TsNII KM “Prometey”», Sankt-Peterburg (RU))*

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Issledovanie treshchinostojkosti metalla vnutrikorpusnykh ustrojstv reaktora VVEhR-440 Novovoronezhskoj AEhS posle 45 let ehkspluatatsii

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## **Effect of long-term exposure of operational parameters in VVER-440 reactor on materials' structure and phase composition of internals components**

**S21**

*Kuleshova, E.A. (FGBU «NITs “Kurchatovskij Inst.”), Moscow (RU); FGAOU VO «NIYaU “MIFI”», Moscow (RU)); Gurovich, B.A.; Frolov, A.S.; Mal'tsev, D.A.; Fedotova, S.V.; Fedotov, I.V. (FGBU «NITs “Kurchatovskij Inst.”), Moscow (RU)); Margolin, B.Z.; Minkin, A.I.; Sorokin, A.A. (FGBU «NITs “Kurchatovskij Inst.” — TsNII KM “Prometej”», Sankt-Peterburg (RU))*

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Vliyanie dlitel'nogo vozdejstviya rabochikh parametrov reaktora VVEhR-440 na strukturu i fazovyj sostav materiala ehlementov vnutrikorpusnykh ustrojstv

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Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerhoe Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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REACTOR COMPONENTS; REACTOR SAFETY; STEEL-CR18NI10TI; NOVovoronezh-3 REACTOR; TEMPERATURE RANGE 0400-1000 K; ATOMIC DISPLACEMENTS

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## **Experimental investigation of fracture toughness of austenitic steel of 18Cr-9Ni grade over wide temperature range after long term neutron irradiation in BN-600 reactor**

**S36**

*Buchatskij, A.A.; Margolin, B.Z.; Gulenko, A.G.; Smirnov, V.I.; Pirogova, N.E.; Sorokin, A.A. (FGBU «NITs “Kurchatovskij Inst.” — TsNII KM “Prometej”», Sankt-Peterburg (RU))*

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Ehksperimental'noe issledovanie treshchinostojkosti austenitnoj stali marki 10Kh18N9 v shirokom diapazone temperatury posle dlitel'nogo nejtronnogo oblucheniya v reaktore BN-600 p. 168-169, 169-170

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## **Swelling, creep and embrittlement of D9 stainless steel cladding and duct in four FFTF driver fuel assemblies after high neutron exposures**

**S21**

*Garner, F.A. (NRNU “MEPhI”, Dept. of Materials Science, Moscow (RU))*

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ALLOY-D-9; FUEL ASSEMBLIES; POST-IRRADIATION EXAMINATION

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### **Study of low-temperature radiation hardening of ferritic-martensitic steels**

**S36**

*Rogozhkin, S.V.; Nikitin, A.A. (FGBU «NITs “Kurchatovskij Inst.” — ITEhF», Moscow (RU); FGAOU VO «NIYaU “MIFI”», Moscow (RU); Iskandarov, N.A. (FGBU «NITs “Kurchatovskij Inst.” — ITEhF», Moscow (RU)) (and others)*

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Issledovanie nizkotemperaturnogo radiatsionnogo uprochneniya ferritno-martensitnykh stalej

p. 171-174, 174-177

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DISPLACEMENTS; RADIATION HARDENING; TRANSMISSION ELECTRON  
MICROSCOPY; ATOMIC FORCE MICROSCOPY

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### **High temperature irradiation embrittlement in neutron irradiated austenitic stainless steels 08Kh18N10T, EhI-847, EhP-172 and ChS-68**

**S36**

*Porollo, S.I.; Ivanov, A.A.; Konobeev, Yu.V.; Shulepin, S.V. (FGBU «NITs “Kurchatovskij Inst.” — GNTs RF — FEhI», Obninsk (RU))*

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### **Radiation phenomena in irradiated austenitic steels after long irradiation in BOR-60 reactor**

**S36**

*Neustroev, V.S.; Belozеров, S.V.; Makarov, E.I.; Markelov, D.E.; Obukhov, A.V.; Sokolovskij, D.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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BOR-60 REACTOR; SWELLING; RADIATION HARDENING; EMBRITTLEMENT; MICROSTRUCTURE; AUSTENITIC STEELS; TIME DEPENDENCE; DOSE RATES

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### **Optimization of structural-phase state of fuel pin claddings made of steel EK164 in order to increase the resource efficiency of fast neutron reactors fuel assemblies**

**S36**

*Churyumova, T.A.; Mitrofanova, N.M. (AO «VNIINM», Moscow (RU))*



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Optimizatsiya strukturno-fazovogo sostoyaniya obolochek tvehlov iz stali marki EhK164-ID s tsel'yu uvelicheniya resursa rabotosposobnosti teplovydelyayushchikh sborok

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## **Study on the heat insulation materials with high temperature sodium in sodium-cooled fast reactor**

**S21**

*Zhang, J.; Fu, X.; Qiu, B.; Ma, H.; Ruan, Z.; Tao, L.; Long, B. (CIAE, Beijing (CN))*

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**The effect of oxygen and hydrogen on stress corrosion cracking of 304NG stainless steel in high temperature water with trace chloride ion for PWR primary loop**

**S21**

*DeQuan, P.; Hui, W.; Yong, H.; BaoLiang, Z. (CIAE, Beijing (CN))*

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**Microstructural and chemical characterization of irradiation effects in claddings with different alloy compositions**

**S36;S21**

*Johnson, K.D.; Lafchiev, K.I.; Jadernas, D.; Tengstrand, O. (Studsvik Nuclear AB, Studsvik (SE)); Shevyakov, A.Y. (JSC «VNIINM», Moscow (RU)); Dolgov, A.B.; Ugryumov, A.V. (JSC «TVEL», Moscow (RU))*

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### **Effect of irradiation on susceptibility of ferritic-martensitic steels to liquid metal embrittlement in liquid lead-bismuth environment**

**S36**

*Gavrilov, S.; Stergar, E.; Lambrechts, M.; Konstantinovic, M.; Van den Bosch, J.*  
(CEN, BNRC, Mol (BE))

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LIQUID METALS; EMBRITTLEMENT; CORROSION; STRAIN RATE; TENSILE PROPERTIES; ATOMIC DISPLACEMENTS; FERRITIC STEELS; MARTENSITIC STEELS

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### **Radiation creep and swelling of steel 08X18H10T at 350–420 °**

**S36**

*Makarov, E.I.; Neustroev, V.S.; Obukhov, A.V.; Markelov, D.E.* (AO «GNTs NIIAR», Dimitrovgrad (RU))

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Radiatsionnaya polzuchest' i raspukhanie stali marki 08Kh18N10T pri temperature 350–420 °

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WWER TYPE REACTORS; STEEL-CR18NI10TI; CREEP; SWELLING; TEMPERATURE RANGE 0400-1000 K; ATOMIC DISPLACEMENTS; LIFETIME EXTENSION

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## **Evolution of the microstructure of austenitic steels after irradiation at 300–350 ° in reactors BOR-60 and SM**

**S36**

*Markelov, D.E.; Neustroev, V.S.; Shamardin, V.K. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Margolin, B.Z.; Sorokin, A.A. (FGBU «NITs “Kurchatovskij Inst.” — TsNII KM “Prometej”», Moscow (RU))*

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BOR-60 REACTOR; MICROSTRUCTURE; TEMPERATURE RANGE 0400-1000 K; INTERSTITIAL HELIUM GENERATION; STAINLESS STEEL-304; STEEL-CR18NI10TI

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## **Neutron-dosimetric support of construction materials properties research experiments in reactor conditions**

**S36**

*Enin, S.A.; Pavlov, V.V.; Belozeroва, A.R.; Chernysheva, T.I. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Examination of corrosion in EhP823-Sh steel claddings of the fuel rods with lead and helium substrates**

**S36**

*Gil'mutdinov, I.F.; Kryukov, F.N.; Nikitin, O.N.; Zhemkov, I.Yu. (AO «GNTs NIIAR»,  
Dimitrovgrad (RU)); Skupov, M.V.; Ivanov, Yu.A. (AO «VNIINM», Moscow (RU))*

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ALLOYS; CORROSION; FUEL RODS; FUEL CANS

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## **Experiment-based and calculation data analysis of the operating conditions for the BOR-60 irreplaceable components**

**S21**

*Zhemkov, I.Yu.; Nabojshchikov, Yu.V.; Krashennnikov, Yu.M. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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BOR-60 REACTOR; NEUTRON FLUENCE; LIFETIME EXTENSION; ATOMIC DISPLACEMENTS; REACTOR COMPONENTS; COMPUTER CALCULATIONS; REACTOR OPERATION

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## **Irradiation-induced swelling of BOR-60 small rotation plug studs**

**S36**

*Neustroev, V.S.; Sokolovskij, D.A.; Belozarov, S.V.; Zhemkov, I.Yu.; Makarov, E.I.; Nabojshchikov, Yu.V.; Plotnikov, A.I.; Poglyad, N.S.; Shirokova, N.I. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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BOR-60 REACTOR; STEEL-CR18NI10TI; SWELLING; ATOMIC DISPLACEMENTS;  
TEMPERATURE RANGE 0400-1000 K; LIFETIME EXTENSION

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## **Quality control procedure applied to welded joints of fuel elements for BN-800 reactor with mixed oxide uranium-plutonium fuel**

**S36**

*Litvinova, M.A.; Mal'tsev, A.A. (FGUP «PO "Mayak"», Ozersk (RU))*

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WELDED JOINTS; QUALITY CONTROL; FUEL ELEMENTS; BELOYARSK-4 REACTOR;  
MIXED OXIDE FUELS; MICROSTRUCTURE; METALLOGRAPHY

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## **Welding of test specimens and test rigs intended for irradiation testing**

**S36**

*Kaplin, A.V.; Tabakin, E.M.; Andreev, S.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Methodology of justification of radiation resistance of reactor pressure vessels of nuclear propulsion systems**

**S22**

*Zhaurov, I.S.; Panov, V.A.; Fedorin, V.P. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU)); Ivanenko, E.A.; Margolin, B.Z.; Morozov, A.M.; Petrov, V.A.; Yurchenko, E.V. (FGBU «NITs “Kurchatovskij Inst.” — TsNII KM “Prometej”», Sankt-Peterburg (RU))*

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## **Assurance level of the brittle fracture resistance in WWER reactor vessel steels**

**S21**

*Orlov, V.V.; Skorobogatykh, V.N.; Anosov, N.P.; Yurgina, Zh.V.; Mikheev, V.A. (AO «NPO “TsNIITMASH”», Moscow (RU)); Koshcheev, K.N.; Barsanova, S.V. (AO «IRM», Zarechnyj (RU)); Shamardin, V.K. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Development of ferritic steels for fuel cladding**

**S36**

*Tarasov, B.A. (AO «VNIINM», Moscow (RU); FGAOU VO «NIYaU “MIFI”», Moscow (RU)); Konovalov, I.I.; Savel'ev, M.D.; Nikitin, S.N.; Tarasova, M.S.; Shornikov, D.P. (FGAOU VO «NIYaU “MIFI”», Moscow (RU))*

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FUEL CANS; FERRITIC STEELS; CORROSION RESISTANCE; PHASE DIAGRAMS;  
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## **Post-irradiation examinations of tube bundle for steam generator OPG-1 after its long-term operation in the BOR-60 reactor**

**S21**

*Bulanova, T.M.; Neustroev, V.S.; Krashennnikov, Yu.M.; Karsakov, A.A.; Goncharenko, Yu.D.; Evseev, L.A.; Shagvaliev, I.V.; Kuchkina, I.N.; Povstyanko, V.V.; Prokhorov, A.G. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Corrosive and mechanical resistance of MgO ceramics in molten salts under metallizing and mild chlorination of spent nuclear fuel**

**S36**

*Golosov, O.A.; Khvostov, S.S.; Glushkova, N.V.; Evseev, M.V.; Staritsyn, S.V. (AO «IRM», Zarechnyj (RU)); Zajkov, Yu.P.; Kovrov, V.A.; Nikitina, E.V.; Kholkina, A.S.; Kazakovtseva, N.A. (FGBUN «IVTEh UrO RAN», Ekaterinburg (RU))*

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## **Radiation tolerance of ultrafine-grained materials produced by severe plastic deformation**

**S36**

*Enikeev, N.A. (FGBOU VO «UGATU», Ufa (RU); FGBOU VO «SPbGU», Sankt-Peterburg (RU)); Shamardin, V.K. (AO «GNTs NIIAR», Dimitrovgrad (RU)); Radige, B. (Univ. Normandii, NTsNI, Ruan (FR))*

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## **Mechanical properties and structure of irradiated ultra-fine grained steel 08X18H10T produced by equal-channel angular pressing**

**S36**

*Shamardin, V.K.; Bulanova, T.M.; Karsakov, A.A. (AO «GNTs NIIAR», Dimitrovgrad (RU)) (and others)*

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Mekhanicheskie svoystva i struktura obluchennoj nejtronami ul'tramelkozernistoj stali marki

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## **Production of large monocrystalline ingots and discs of molybdenum and its alloys by means of electron-beam zone melting for fabrication of special-purpose products**

**S36**

*Kolesnikov, E.G.; Stepanov, V.A.; Stepanchikov, P.A.; Fedoseev, R.A.; Shotaev, A.N. (FGUP «NII „NPO «Luch»”), Podol'sk (RU))*

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Poluchenie krupnogabaritnykh monokristallicheskikh slitkov i diskov iz molibdena i splavov na ego osnove metodom ehlektronno-luchevoj zonnoj plavki dlya izdelij spetsial'nogo naznacheniya

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## **Classification of irradiation rigs for material testing in BOR-60 reactor**

**S46;S36**

*Anisimov, V.Yu.; Boev, A.V. (AO «GNTs NIIAR», Dimitrovgrad (RU); FGAOU VO «DITI NIYaU „MIFI”», Dimitrovgrad (RU)); Eremin, S.G.; Zhemkov, I.Yu.; Plotnikov, A.I.; Poglyad, N.S. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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## **Tritium and helium release from beryllium-based materials irradiated up to high neutron doses**

**S36**

*Chakin, V.; Rolli, R. (KIT, IAM, Karlsruhe (DE))*

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**Effect of nuclear reaction products in beryllium on research reactor physical and process parameters**

**S21;S36**

*Malkov, A.P.; Pimenov, V.V.; Kalygin, V.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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**Investigation compatibility B<sub>4</sub>C pellet with stainless steel cladding and high temperature sodium for sodium-cooled fast reactor**

**S36**

*Qin, B.; Fu, X.; Long, B. (CIAE, Beijing (CN))*

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**Post-irradiation examinations of absorber material for compound absorber rods of the VVER control and protection system after operation in the VVER-1000 reactors of Kalinin and Balakovo nuclear power plants**

**S22**

*Zakharov, A.V.; Muraleva, E.M. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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XI konferentsiya po reaktornomu materialovedeniyu

Rezul'taty poslereaktornykh issledovaniy pogloshchayushchikh sterzhnej sistemy upravleniya i zashchity s pehlami na osnove kombinirovannogo pogloshchayushchego serdechnika posle ehkspluatatsii v reaktorakh VVEhR-1000 Kalininskoj i Balakovskoj AEhS

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**Thermal and physical properties of nuclear-reactor-grade graphite irradiated up to high neutron fluence values**

**S36**

*Belan, E.P.; Khar'kov, D.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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TEMPERATURE RANGE 0400-1000 K; NEUTRON FLUENCE; LWGR TYPE REACTORS;  
TEMPERATURE RANGE 1000-4000 K; MICROSTRUCTURE

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### **Effect of the damage dose accumulation rate on the microstructure of Fe18Cr10NiTi steel irradiated in the BOR-60 reactor at 330–350 °**

**S36**

*Markelov, D.E.; Obukhov, A.V.; Neustroev, V.S. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

**XI Conference on reactor materials science**

Dimitrovgrad (RU)

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XI konferentsiya po reaktornomu materialovedeniyu

Vliyanie skorosti nabora povrezhdayushchej dozy na mikrostrukturu stali marki Kh18N10T posle oblucheniya v reaktore BOR-60 pri temperature 330–350 °

p. 251-252, 252-253

(RU, EN)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerное Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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BOR-60 REACTOR; STEEL-CR18NI10TI; MICROSTRUCTURE; TEMPERATURE RANGE 0400-1000 K; REACTOR MATERIALS; DOSE RATES; ATOMIC DISPLACEMENTS

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### **Molecular dynamic simulation of atomic displacement cascades in binary alloys Zr-(0.5–3)% Nb, analysis of the distribution of niobium atoms in self-interstitial configurations**

**S36**

*Kapustin, P.E.; Tikhonchev, M.Yu.; Svetukhin, V.V. (FGBOU VO «UIGU», Ul'yanovsk (RU))*

**XI Conference on reactor materials science**

Dimitrovgrad (RU)

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XI konferentsiya po reaktornomu materialovedeniyu

Molekulyarno-dinamicheskoe modelirovanie kaskadov atomnykh smeshchenij v binarnykh splavakh Zr-(0,5–3)% Nb, analiz raspredeleniya atomov niobiya v sobstvennykh mezhdouzel'nykh konfiguratsiyakh

p. 253-256, 256-258

(RU, EN)

4 refs., 2 figs., 2 tabs.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerhoe Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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ZIRCONIUM BASE ALLOYS; NIOBIUM ADDITIONS; ATOMIC DISPLACEMENTS; BINARY ALLOY SYSTEMS; INTERSTITIALS; SIMULATION; MOLECULAR DYNAMICS METHOD

---

## **Prediction of the SAV-1 alloy properties under neutron irradiation conditions to justify radiation life time of the research nuclear reactor**

**S36**

*Golubeva, O.V.; Petrov, V.A.; Ivanenko, E.A.; Morozov, A.M. (FGBU «NITs «“Kurchatovskij Inst.” — TsNII KM “Prometej”», Sankt-Peterburg (RU)); Fridman, S.R. (FGBU «NITs «“Kurchatovskij Inst.” — PIYaF», Gatchina (RU)); Rodchenkov, B.S. (AO «NIKIEhT», Moscow (RU)); Vasil'ev, A.V. (AO «NIFKhI», Moscow (RU))*

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Prognozirovaniye sluzhebnykh kharakteristik splava SAV-1 v usloviyakh nejtronnogo oblucheniya dlya obosnovaniya radiatsionnogo resursa issledovatel'skikh yadernykh reaktorov

p. 259-260, 260-261

(RU, EN)

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ALUMINIUM BASE ALLOYS; RESEARCH REACTORS; PHYSICAL RADIATION EFFECTS; EMBRITTLEMENT; REVIEWS; POINT DEFECTS; DISLOCATIONS; TEMPERATURE RANGE 0273-0400 K; TEMPERATURE RANGE 0400-1000 K; POST-IRRADIATION EXAMINATION

---

**Contribution of swelling and irradiation-induced creep into the total deformation of BN-600 fuel pin claddings made of steel ChS68-ID by the advanced technology**

**S36**

*Grin', P.I.; Neustroev, V.S.; Stroz huk, A.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

**XI Conference on reactor materials science**

Dimitrovgrad (RU)

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XI konferentsiya po reaktornomu materialovedeniyu

Vklad raspukhaniya i radiatsionnoj polzuchesti v obshchuyu deformatsiyu obolochek tvehlov reaktora BN-600, izgotovlennykh iz stali marki ChS68-ID po modernizirovannoj tekhnologii

p. 261-263, 263-265

(RU, EN)

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CHROMIUM-NICKEL-MOLYBDENUM STEELS; SWELLING; CREEP; PHYSICAL RADIATION EFFECTS; DEFORMATION; BELOYARSK-3 REACTOR; FUEL CANS

---

**Tubular samples short-term mechanical tensile tests methods improving to create a database on post-irradiation properties of zirconium alloys**

**S36**

*Shevyakov, A.Yu.; Gusev, A.Yu.; Bekrenev, S.A.; Markelov, V.A.; Novikov, V.V. (AO «VNIINM», Moscow (RU)); Goncharenko, Yu.D.; Eremin, S.G.; Chertopyatov, E.V. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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XI konferentsiya po reaktornomu materialovedeniyu

Sovershenstvovanie metodik kratkovremennykh mekhanicheskikh ispytanij na rastyazhenie trubchatykh obraztsov dlya sozdaniya bazy dannykh po poslereaktornym svojstvam

tsirkonievyykh splavov



p. 265-266, 266-267

(RU, EN)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerhoe Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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312 p.

POST-IRRADIATION EXAMINATION; ZIRCALOY; TENSILE PROPERTIES; MATERIALS TESTING; PERFORMANCE TESTING; USES

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### **Post-irradiation examinations of welded joints for steam generator in operation in the BOR-60 reactor**

**S21**

*Andreev, S.A.; Ivanovich, Yu.V.; Tabakin, E.M.; Bulanova, T.M.; Makarov, O.Yu.; Krashennnikov, Yu.M. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Issledovanie sostoyaniya svarnykh soedinenij parogeneratora reaktornoj ustanovki BOR-60

p. 267-268, 269-270

(RU, EN)

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POST-IRRADIATION EXAMINATION; WELDED JOINTS; STEAM GENERATORS; BOR-60 REACTOR; NONDESTRUCTIVE TESTING; DESTRUCTIVE TESTING

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### **Study on the behavior of delayed hydride cracking and microstructure of Zr-2.5Nb pressure tube material**

**S36**

*Bian, W.; Guo, L. (CIAE, Beijing (CN))*

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ZIRCALOY; NIOBIUM ALLOYS; INTERSTITIAL HYDROGEN GENERATION;  
MICROSTRUCTURE; CRACK PROPAGATION; METALLOGRAPHY; MATERIALS  
TESTING

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## **The fuel-cladding chemical interaction test between lanthanide containing U-Zr metallic fuel and HT9**

**S21**

*Han, I.-S.; Kim, J.-S.; Cheon, J.-S. (KAERI, Daejeon (KR))*

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Lanthanides - La, Ce, Nd, Pr

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FUEL-CLADDING INTERACTIONS; FUEL CANS; ALLOY NUCLEAR FUELS;  
CHROMIUM-NICKEL STEELS; SODIUM COOLED REACTORS; SERVICE LIFE

---

## **A mathematical model of radiation shape changing of core assemblies of fast**

## **sodium-cooled reactors and its implementation in a current analytical code**

**S21**

*Vilenskij, O.Yu.; Ryabtsov, A.V. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU))*

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Matematicheskaya model' radiatsionnogo formoizmeneniya sborok aktivnoj zony bystrykh natrievykh reaktorov i ee realizatsiya v sovremennom raschetnom kode

p. 272, 272-273

(RU, EN)

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BELOYARSK-3 REACTOR; BELOYARSK-4 REACTOR; MATHEMATICAL MODELS; REACTOR CORES; SWELLING; CHROMIUM-MOLYBDENUM STEELS; CREEP; VERIFICATION

---

## **Behavior of VVER-1000 fuel rods under simulated dry storage conditions**

**S21**

*Il'in, P.A.; Zvir, E.A.; Grin', P.I. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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XI konferentsiya po reaktornomu materialovedeniyu

Povedenie tvehlov reaktorov VVEhR-1000 v usloviyakh, modeliruyushchikh sukhoe khranenie

p. 273-274, 274-275

(RU, EN)

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerное Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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312 p.

NOVOVORONEZH-5 REACTOR; FUEL ELEMENTS; DRY STORAGE; SPENT FUEL STORAGE; THERMAL CYCLING; SIMULATION; FEASIBILITY STUDIES

---

**Elaboration of method for testing mechanical properties of tubular specimens under internal pressure of plastic filler**

**S36**

*Eremin, S.G.; Khar'kov, D.V.; Glushkov, D.A. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Razrabotka metoda mekhanicheskikh ispytaniy trubchatykh obraztsov vnutrennim davleniem plastichnogo zapolnitelya

p. 275-276, 277-278

(RU, EN)

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312 p.

POST-IRRADIATION EXAMINATION; FUEL CANS; DEFORMATION; STRAINS; FEASIBILITY STUDIES; EXTENSOMETERS; MECHANICAL TESTS

---

**Atomistic simulation of self-diffusion on the grain boundaries in hcp-zirconium**

**S36**

*Tikhonchev, M.Yu.; Svetukhin, V.V. (FGBOU VO «UIGU», Ul'yanovsk (RU))*

**XI Conference on reactor materials science**

Dimitrovgrad (RU)

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XI konferentsiya po reaktornomu materialovedeniyu

Atomisticheskoe modelirovanie samodiffuzii na granitsakh zeren v tsirkonii s geksgonal'noj plotnoupakovannoj reshetkoj

p. 278-281, 281-284

(RU, EN)

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GRAIN BOUNDARIES; HCP LATTICES; SELF-DIFFUSION; SIMULATION; ZIRCALOY;  
FUEL ELEMENTS; FUEL ASSEMBLIES; TEMPERATURE RANGE 0400-1000 K

---

### **Analysis of the VVER-1000 fuel rod thermal-mechanical state based on the MIR-LOCA/72 experiment data**

**S21**

*Alekseev, A.V.; Dreganov, O.I.; Zakharova, L.P.; Kireev, N.V.; Kiseleva, I.V.; Shulimov, V.N. (AO «GNTs NIIAR», Dimitrovgrad (RU))*

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Analiz termomekhanicheskogo sostoyaniya tvehla reaktora VVEhR-1000 po rezul'tatam ehksperimenta MIR-LOCA/72

p. 284-285, 285-286

(RU, EN)

1 fig.

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionerno-Obshchestvo «Gosudarstvennyj Nauchnyj Tsentr — Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)

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NOVOVORONEZH-5 REACTOR; FUEL RODS; LOSS OF COOLANT; BURNUP;  
DEFORMATION; POST-IRRADIATION EXAMINATION; THERMOMECHANICAL  
TREATMENTS

---

### **Preliminary results and prospects of NMR-spectroscopy methods in the study of the phase composition of uranium mononitride**

**S38**

*Ogloblichev, V.V.; Verkhovskij, S.V. (FGBUN «IFM UrO RAN», Ekaterinburg (RU)); Potapov, A.M. (FGBUN «IVTEh UrO RAN», Ekaterinburg (RU))*

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XI konferentsiya po reaktornomu materialovedeniyu

Predvaritel'nye rezul'taty i perspektivy metodov spektroskopii yadernogo magnitnogo rezonansa pri issledovanii fazovogo sostava mononitrida urana

p. 286-287, 287

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URANIUM NITRIDES; NUCLEAR MAGNETIC RESONANCE; CHEMICAL COMPOSITION; PHASE STUDIES; TEMPERATURE RANGE 0273-0400 K; NMR SPECTRA

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»). Abstracts S73;S75;S36;S62;S63**

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

Almaty (KZ)

12-15 Sep 2017

Mezhdunarodnyj nauchnyj forum «Yadernaya nauka i tekhnologii», posvyashchennyj 60-letiyu Instituta yadernoj fiziki (11-ya Mezhdunarodnaya konferentsiya «Yadernaya i radiatsionnaya fizika»; Mezhdunarodnaya konferentsiya «Yadro-2017» (67-e Soveshchanie po yadernoj spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

Mezhdunarodnyj nauchnyj forum «Yadernaya nauka i tekhnologii», posvyashchennyj 60-letiyu Instituta yadernoj fiziki (11-ya Mezhdunarodnaya konferentsiya «Yadernaya i radiatsionnaya fizika»; Mezhdunarodnaya konferentsiya «Yadro-2017» (67-e Soveshchanie po yadernoj spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»). Tezisy dokladov

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The International Scientific Forum «Nuclear science and technologies» was dedicated to the 60th anniversary of the Institute of Nuclear Physics of the Republic Kazakhstan. The collection contains abstracts reports presented on the 11-th International conference on nuclear and radiation physics, the International conference on nuclear spectroscopy Nucleus-2017 and the 8-th Eurasian conference «Nuclear science and its application»

Международный научный форум «Ядерная наука и технологии» был посвящен 60-летию Института ядерной физики Республики Казахстан. Сборник содержит тезисы докладов, представленных на 11-ой Международной конференции «Ядерная и радиационная физика», Международной конференции «Ядро-2017» (67-е Совещание по ядерной спектроскопии и структуре атомного ядра), 8-ой Евразийской конференции «Ядерная наука и ее применение»

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## **History of creation, main achievements and prospects of development of the Institute of Nuclear Physics**

**S99;S73**

*Kenzhin, E.A. (RGP «Inst. Yadernoj Fiziki», Almaty (KZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Istoriya sozdaniya, osnovnye dostizheniya i perspektivy razvitiya Instituta yadernoj fiziki

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**KAZAKHSTAN ORGANIZATIONS; NUCLEAR PHYSICS; RADIOECOLOGY; HISTORICAL ASPECTS; RESEARCH PROGRAMS**

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## **Unified mechanism of origin of T-odd TRI- and ROT-asymmetries in ternary fission reactions of actinide nuclei by cold polarized neutrons**

**S73**

*Kadmenskij, S.G.; Lyubashevskij, D.E. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)); Bunakov, V.E. (NITs "Kurchatovskij Inst.", Peterburgskij Inst. Yadernoj Fiziki, Gatchina (RU)), e-mail: kadmensky@phys.vsu.ru*

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Edinyj mekhanizm poyavleniya t-nechetnykh TRI- i ROT-asimmetrij v reaktsiyakh trojnogo deleniya yader-aktinidov kholodnymi polyarizovannymi nejtronami

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## **Challenge for creation of science and industry on the base of cooperation between Chiyoda Technol Co. and the Institute of Nuclear Physics**

**S07**

*Hosoda, T. (Chiyoda Technol Corporation, Tokyo (JP)); Kenzhin, Y. (Inst. of Nuclear Physics,*

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ISOTOPE PRODUCTION; ISOTOPE PRODUCTION REACTORS; KAZAKHSTAN; JAPAN; INTERNATIONAL COOPERATION; WWR-K-ALMATY REACTOR; MOLYBDENUM 99

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## **Researches in nuclear planetology in JINR**

**S46**

*Shvetsov, V.N. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna, (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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COSMIC NEUTRONS; COSMIC RAY DETECTION; NEUTRON DETECTORS; SPACE VEHICLES; JINR

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## **Radioisotopes and toxic elements in transboundary rivers of Kazakhstan. Results of the 10-year monitoring**

**S54**

*Solodukhin, V.P. (Inst. Yadernoj Fiziki, Almaty (KZ))*

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Radionuklidy i toksichnye ehlementy v transgranichnykh rekakh Kazakhstana – rezul'taty 10-letnego monitoringa

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## **Atomic hydrogen energetics as actual direction of future energetics**

**S08**

*Garibov, A.A. (Natsional'nyj Yadernyj Issledovatel'skij Tsentr Inst. Radiatsionnykh Problem NANA, Baku (AZ))*

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## **New directions of researches of nucleon halo**

**S73**

*Dem'yanova, A.S. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU))*  
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p. 15

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NUCLEAR HALOS; NUCLEAR RADII; NUCLEAR STRUCTURE; DIFFRACTION MODELS; BERYLLIUM 9; CARBON 13; NITROGEN 13

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### **Three-body asymptotic normalization functions as a new fundamental dynamic characteristic of the three-body halo nuclei**

**S73**

*Yarmukhamedov, R. (Inst. of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent (UZ))*

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NUCLEAR HALOS; THREE-BODY PROBLEM; ASYMPTOTIC SOLUTIONS; WAVE FUNCTIONS; LIGHT NUCLEI; THEORETICAL DATA; NUCLEAR STRUCTURE

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## **25 years of the National nuclear center of the Republic of Kazakhstan. From national tragedy to national pride**

**S54**

*Batyrbekov, Eh.G. (Natsional'nyj Yadernyj Tsentru Respubliki Kazakhstan, Kurchatov (KZ))*

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SEMPALATINSK TEST SITE; KAZAKHSTAN; PROLIFERATION; NON-PROLIFERATION POLICY; INTERNATIONAL COOPERATION; DECONTAMINATION; RADIOECOLOGY; HISTORICAL ASPECTS

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## **Features of behaviour of helium and hydrogen in dispersion-hardened ferritic-martensitic reactor steels**

**S36**

*Guseva, L.Yu.; Kalin, B.A.; Stal'tsov, M.S.; Chernov, I.I. (Natsional'nyj Issledovatel'skiy Yaderniy Univ. «MIFI», Moscow (RU))*

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p. 17

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## **Definition of low-energy parameters of NN-interaction in small nucleon reactions**

### **S73**

*Konobeevskij, E.S.; Zuev, S.V.; Kasparov, A.A.; Mitsuk, V.V.; Mordovskoj, M.V. (Inst. Yadernykh Issledovanij Rossijskoj Akademii Nauk, Moscow (RU)); Kukulin, V.I.; Lebedev, V.M.; Pomerantsev, V.N.; Spasskij, A.V. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Opreделение nizkoehnergeticheskikh parametrov NN-vzaimodejstviya v malonuklonnykh reaktsiyakh

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DEUTERIUM TARGET; MEV RANGE 10-100; PROTONS; DINEUTRONS; EXPERIMENT  
RESULTS

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## **On possibility of delayed fission of nuclei in superheavy transuranium element range**

### **S73**

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O vozmozhnosti zapazdyvayushchego deleniya yader v oblasti sverkhlyazhelykh transuranovykh ehlementov

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6 refs.

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DELAYED PROTONS; FISSION; TRANSURANIUM ELEMENTS; ODD-ODD NUCLEI; K CAPTURE

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## **Solving quantum mechanical problems using finite element method and parametric basis functions**

**S73**

*Chuluunbaatar, O.; Vinitzky, S.I.; Gusev, A.A. (Joint Inst. for Nuclear Research, Dubna (XJ)); Krassovitskiy, P.M. (Inst. of Nuclear Physics, Almaty (KZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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BOUNDARY-VALUE PROBLEMS; EFFICIENCY; EIGENFUNCTIONS; DIAGRAMS;

THEORETICAL DATA

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## **Excitation of $^{93m}\text{Mo}$ in (p,n)-reactions on niobium nuclei**

**S73**

*Vishnevskij, I.N.; Zheltonozhskij, V.A.; Cavarsov, A.N. (Inst. Yadernykh Issledovanij NAN Ukrainy, Kiev (UA))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Vozbuzhdenie  $^{93m}\text{Mo}$  v (r,n)-reaktsii na yadrakh niobiya

p. 22

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MOLYBDENUM 93; TARGETS; PROTON REACTIONS; NIOBIUM; MEV RANGE 01-10; CROSS SECTIONS; NEUTRONS; HIGH-PURITY GE DETECTORS; EXPERIMENTAL DATA

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### **New improvement on the $^{10}\text{B}(p,\alpha)^7\text{Be}$ reaction via Trojan Horse method at low energies**

**S73**

*Rapisarda, G.G.; Spitaleri, C.; Cvetinovic, A. (INFN, Lab. Nazionali del Sud, Catania (IT)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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BORON 10 TARGET; PROTON REACTIONS; ALPHA PARTICLES; BERYLLIUM 7; DEUTERIUM TARGET; BORON 10 REACTIONS; ASTROPHYSICAL S FACTOR; EXPERIMENTAL DATA

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## **Study of $^{179m2}\text{Hf}$ on nuclei of hafnium and tantalum in Bremsstrahlung gamma-quanta**

**S73**

*Zheltonozhskij, V.A.; Cavarsov, A.N. (Inst. Yadernykh Issledovaniy NAN Ukrainy, Kiev (UA))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Issledovanie  $^{179m2}\text{Hf}$  na yadrakh hafniya i tantala v reaktsiyakh s tormoznymi gamma-kvantami p. 23

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## **On properties of nuclei in vicinity of proton and neutron stability boundary**

**S73**

*Tarasov, V.N.; Kuprikov, V.I.; Pilipenko, V.V.; Tarasov, D.V. (Natsional'nyj Nauchnyj Tsentr KhFTI NAN Ukrainy, Khar'kov (UA))*

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O svoystvakh yader v okrestnosti protonnoj i nejtronnoj granitsy stabil'nosti

p. 23

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## **Compilation of experimental nuclear reaction data measured in Kazakhstan and Uzbekistan for the EXFOR Library**

**S73**

*Kenzhebeyev, N. (Faculty of Physics and Technics, Kazakh National Univ., Almaty (KZ)); Zholdybayev, T. (Nuclear Physics Dept., Inst. of Nuclear Physics, Almaty (KZ)); Ergashev, F. (Inst. of Nuclear Physics AS RUz, Tashkent (UZ)); Naohiko Otsuka (Nuclear Data Section, Div. of Physical and Chemical Sciences, Dept. of Nuclear Sciences and Applications, International Atomic Energy Agency, Wien (XA)), e-mail: n.otsuka@iaea.org*

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International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»). Abstracts

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NUCLEAR DATA COLLECTIONS; COMPILED DATA; LIBRARIES; NUCLEAR REACTIONS; KAZAKHSTAN; UZBEKISTAN

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## **A new invariance of periodic law**

**S73**

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*askeraliabiyevev@hotmail.com*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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PERIODIC SYSTEM; ATOMIC NUMBER; NUCLEAR STRUCTURE; TRANSACTINIDE ELEMENTS; THEORETICAL DATA

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## **Nonlinear corrections and structure formation at strong interactions**

**S73**

*Temiraliev, A.T.; Lebedev, I.A. (Inst. of Physics and Technology, Almaty (KZ))*

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STRONG INTERACTIONS; QUARK-GLUON INTERACTIONS; QUANTUM CHROMODYNAMICS; NONLINEAR PROBLEMS; CORRECTIONS; ATTRACTORS; PHASE SPACE; CHAOS THEORY; THEORETICAL DATA

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## **Comparison of partial photoneutron reaction cross sections reliability for $^{140,142}\text{Ce}$**

**S73**

*Varlamov, V.V.; Barbaryan, V.A.; Peskov, N.N. (Skobeltsyn Inst. of Nuclear Physics of Lomonosov Moscow State Univ., Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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PHOTONUCLEAR REACTIONS; PHOTONEUTRONS; CERIUM 140 TARGET; CERIUM 142 TARGET; CROSS SECTIONS; EXPERIMENT RESULTS; EVALUATED DATA

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## **Silicon based detection system for the study of rare fission mode processes**

**S46;S73**

*Berikov, D.B.; Chuprakov, I.A. (Joint Inst. for Nuclear Researches, Dubna (XJ); The Inst. of Nuclear Physics, Almaty (KZ)); Ahmadov, G.S. (Joint Inst. for Nuclear Researches, Dubna (XJ); Azerbaijan National Academy of Sciences - AD and İRP, Baku (AZ)); National Nuclear Research Centre, Baku (AZ)); Nuruyev, S.M. (Joint Inst. for Nuclear Researches, Dubna (XJ); Azerbaijan National Academy of Sciences - AD and İRP, Baku (AZ)); Kopatch, Yu.N.; Telezhnikov, S.A. (Joint Inst. for Nuclear Researches, Dubna (XJ)); Akbarov, R. (Joint Inst. for Nuclear Researches, Dubna (XJ); National Nuclear Research Centre, Baku (AZ))*

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### **Evaluation of reliable partial photoneutron reaction cross sections for $^{139}\text{La}$ S73**

*Varlamov, V.V.; Kaydarova, V.D.; Peskov, N.N. (Skobeltsyn Inst. of Nuclear Physics of Lomonosov Moscow State Univ., Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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PHOTONUCLEAR REACTIONS; PHOTONEUTRONS; MULTIPLICITY; CROSS SECTIONS; LANTHANUM 139 TARGET; EVALUATED DATA

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### **New partial photoneutron reaction cross sections for $^{90}\text{Zr}$ in the region of GDR S73**

*Varlamov, V.V.; Davydov, A.I.; Peskov, N.N. (Skobeltsyn Inst. of Nuclear Physics of Lomonosov Moscow State Univ., Moscow (RU))*

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## Measurements of charge-changing cross-sections for Ca and Ni isotopes

S73

*Suzuki, T.; Arakawa, H.; Fujii, T. (Dept. of Physics, Saitama Univ., Saitama (JP)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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CHARGE-EXCHANGE REACTIONS; CARBON; TARGETS; CALCIUM ISOTOPES;  
NICKEL ISOTOPES; CROSS SECTIONS; NUCLEAR RADII; EXPERIMENTAL DATA

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## Photoneutron energy spectra from $^{181}\text{Ta}$ , $^{208}\text{Pb}$ , and $^{209}\text{Bi}$ and the problem of partial photoneutron reaction cross section reliability

S73

*Varlamov, V.V.; Orlin, V.N.; Peskov, N.N. (Skobeltsyn Inst. of Nuclear Physics of Lomonosov Moscow State Univ., Moscow (RU))*

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BISMUTH 209 TARGET; PHOTONEUTRONS; MULTIPLICITY; DINEUTRONS;

NEUTRON SPECTRA; ENERGY SPECTRA; CROSS SECTIONS; THEORETICAL DATA

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## **Reliability of partial photoneutron reaction cross sections and neutron energy spectra for $^{116}\text{Sn}$**

**S73**

*Varlamov, V.V.; Ishkhanov, A.A.; Orlin, V.N. (Skobeltsyn Inst. of Nuclear Physics of Lomonosov Moscow State Univ., Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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### **Mass and energy characteristics of $^{241}\text{Pu}$ fission products by thermal neutrons** **S73**

*Abdullaeva, G.A.; Kulabdullaev, G.A.; Rakhmonov, T.T.; Cajtdzhanov, Sh.N. (Inst. Yadernoj Fiziki AN RUz, Tashkent (UZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Massovye i ehnergeticheskie kharakteristiki produktov deleniya  $^{241}\text{Pu}$  teplovymi nejtronami  
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## **Time scale of the thermal multifragmentation in $^4\text{He} + \text{Au}$ collisions**

**S73**

*Avdeyev, S.P.; Karcz, W.; Kirakosyan, V.V.; Rukoyatkin, P.A.; Stegaylov, V.I. (Joint Inst. for Nuclear Research, Dubna (XJ)); Oeschler, H. (Inst. fuer Kernphysik, Univ. of Technology, Darmstadt (DE)); Botvina, A.S. (Frankfurt Inst. for Advanced Studies, Johann Wolfgang Goethe Univ., Frankfurt am Main (DE)), e-mail: avdeyev@aol.com*

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## **Interaction of femtosecond laser pulse with $^{181}\text{Ta}$ target**

**S75**

*Seksembaev, Zh.B.; Sakhiev, S.K. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ)); Bayakhmetov, O.S.; Azamatov, A.A.; Amanbek, N.N. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ)); Astaninskij Filial IYaF RK, Astana (KZ)*

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Vzaimodejstvie femtosekundnogo lazernogo impul'sa s mishen'yu  $^{181}\text{Ta}$

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## **Precise ground state energy of the helium-muonic atoms**

**S73**

*Aznabayev, D.T.; Bekbaev, A.K. (Joint Inst. for Nuclear Research, Dubna (XJ); Al-Farabi Kazakh National Univ., Almaty (KZ)); Korobov, V.I. (Joint Inst. for Nuclear Research, Dubna (XJ))*

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HELIUM 4; MUONIC ATOMS; GROUND STATES; BOUND STATE; WAVE FUNCTIONS; ENERGY LEVELS; THEORETICAL DATA

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**Study of energy dependence of optical potential parameters for  $^{14}\text{N} + ^{10}\text{B}$  system in the energy range  $E=38,1-97$  MeV**

**S73**

*Burtebaev, N.; Alimov, D.K.; Kerimkulov, Zh.K.; Burtebaeva, D.T.; Mukhamedzhanov, E.S.; Khodzhaev, R.A. (RGP Inst. Yadernoj Fiziki KEh RK, Almaty (KZ)); Boztosun, I.; Karakoch, M. (Univ. Akdeniz, Fakul'tet Fiziki, Antal'ya (TR)); Nasurlla Marzhan (RGP Inst. Yadernoj Fiziki KEh RK, Almaty (KZ); Kazakhskij Natsional'nyj Univ. imeni Al'-Farabi, Almaty (KZ)); Kurakhmedov, A.E. (Evrazijskij Natsional'nyj Univ. imeni L.N. Gumileva, Astana (KZ))*

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Issledovanie ehnergeticheskoy zavisimosti parametrov opticheskikh potentsialov dlya sistemy

$^{14}\text{N} + ^{10}\text{B}$  v intervale  $E=38,1-97$  MeV

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(RU)

3 refs.

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DEPENDENCE; COULOMB FIELD; OPTICAL MODELS; ELASTIC SCATTERING; F

CODES; THEORETICAL DATA

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## **Influence of complex configurations on properties of pygmy E1 resonance in neutron-rich Ca isotopes**

**S73**

*Arsenyev, N.N.; Voronov, V.V. (Bogoliubov Lab. of Theoretical Physics, JINR, Dubna (XJ));*

*Severyukhin, A.P. (Bogoliubov Lab. of Theoretical Physics, JINR, Dubna (XJ); Dubna State*

*Univ., Dubna (RU)); Nguyen Van Giai (Inst. de Physique Nucleaire, CNRS-IN2P3, Univ. Paris-Sud, Orsay Cedex (FR))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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CALCIUM 52; CALCIUM 54; E1-TRANSITIONS; NEUTRON-RICH ISOTOPES; RANDOM PHASE APPROXIMATION; SKYRME POTENTIAL; THEORETICAL DATA

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## **Momentum distributions for excited states of $^{11}\text{B}$ , $^{13}\text{C}$ , $^{17}\text{O}$ nuclei, obtained with the modified wave functions**

**S73**

*Afanasyeva, N.V. (Scientific-Research Inst. of Experimental and Theoretical Physics of Al-Farabi Kazakh National Univ., Almaty (KZ)); Burkova, N.A.; Sharafutdinova, D.N. (Al-Farabi Kazakh National Univ., Almaty (KZ))*

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### **Halo- and skin-radii of excited states of $^{11}\text{B}$ , $^{13}\text{C}$ , $^{17}\text{O}$ nuclei**

S73

*Afanasyeva, N.V. (Scientific-Research Inst. of Experimental and Theoretical Physics of Al-Farabi Kazakh National Univ., Almaty (KZ)); Burkova, N.A.; Sharafutdinova, D.N. (Al-Farabi Kazakh National Univ., Almaty (KZ))*

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Galo- i skin-radiusy vozbuzhdennykh sostoyanij yader  $^{11}\text{B}$ ,  $^{13}\text{C}$ ,  $^{17}\text{O}$

p. 40

(RU)

6 refs.

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BORON 11; CARBON 13; OXYGEN 17; NUCLEAR HALOS; EXCITED STATES; WAVE FUNCTIONS; NUCLEAR RADII; THEORETICAL DATA

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### **Elastic longitudinal electron scattering on 1p-shell light nuclei**

S73

*Bayakhmetov, O.S. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ); Astaninskij Filial IYaF RK, Astana (KZ)); Sejtkali, A.Eh. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ))*

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**and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Uprugoe prodol'noe rasseyaniye ehlektronov na legkikh yadrakh 1p-obolochki

p. 41

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5 refs., 3 figs.

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ELECTRON REACTIONS; BERYLLIUM 9 TARGET; CARBON 12 TARGET; OXYGEN 16 TARGET; ELASTIC SCATTERING; FORM FACTORS; CLUSTER MODEL; COMPARATIVE EVALUATIONS; THEORETICAL DATA; EXPERIMENTAL DATA; DIAGRAMS

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## **Radiative capture $\alpha$ ( $\tau$ , $\gamma$ ) $^7\text{Be}$ at low energy**

**S73**

*Burkova, N.A. (Al-Farabi Kazakh National Univ., Almaty (KZ)); Dubovichenko, S.B. (V.G. Fesenkov Astrophysical Inst., Almaty (KZ)); Tkachenko, A.S.; Mukaeva, A.R.; Beisenov, B.U. (Al-Farabi Kazakh National Univ., Almaty (KZ)); V.G. Fesenkov Astrophysical Inst., Almaty (KZ))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

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6 refs., 1 fig.

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HELIUM 4 TARGET; HELIUM 3 REACTIONS; BERYLLIUM 7; GAMMA RADIATION;

KEV RANGE 10-100; CAPTURE; CLUSTER MODEL; DIAGRAMS; THEORETICAL

DATA

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## Spectroscopy of molecular hydrogen ions

S73

*Bekbaev, A.K.; Aznabayev, D.T. (Al-Farabi Kazakh National Univ., Almaty (KZ); Joint Inst. for*

*Nuclear Research, BLTP, Dubna (XJ)); Korobov, V.I. (Joint Inst. for Nuclear Research, BLTP,*

*Dubna (XJ)); Nurbakova, G.S. (Al-Farabi Kazakh National Univ., Almaty (KZ))*

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ee primeneniye»)

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## **Properties of light mesons in interactions of heavy nuclei in the PHENIX experiment**

**S73**

*Berdnikov, Ya.A.; Berdnikov, A.Ya.; Zharko, S.V.; Kotov, D.O.; Radzevich, P.V. (Sankt-Peterburgskij Politekhnikeskij Univ. Petra Velikogo, Sankt-Peterburg (RU))*

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Svoystva legkikh mezonov vo vzaimodejstviyakh tyazhelykh yader v ehksperimente FENIKS  
p. 44

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3 refs.

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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PHENIX DETECTOR; PIONS NEUTRAL; COPPER; GOLD; TARGETS; NUCLEAR REACTIONS; NUCLEAR REACTION YIELD; GEV RANGE 100-1000; NUCLEON-NUCLEON INTERACTIONS; THEORETICAL DATA

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**Simulation of neutron physical characteristics of the subcritical assembly «Yalina-Teplovaya» by means of Monte Carlo method with libraries of evaluated nuclear data ENDF/B-VII and JENDL-3.2**

**S21**

*Beresneva, V.A.; Korbut, T.N.; Korneev, S.V. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob"edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij – Sosny» Natsional'noj Akademii Nauk Belarusi, Minsk (BY)), e-mail: vaberesneva93@gmail.ru*

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Modelirovanie nejtronno-fizicheskikh kharakteristik podkriticheskoj sborki «Yalina-Teplovaya» metodom Monte-Karlo s bibliotekami otsenennykh yadernykh dannyx ENDF/B-VII i JENDL-3.2

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YALINA FACILITY; NEUTRON SPECTRA; ACTIVATION DETECTORS; S CODES; M CODES; MONTE CARLO METHOD; COMPUTERIZED SIMULATION; SPECTRA UNFOLDING; THEORETICAL DATA

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**CAEN: power supplies and digital electronics for nuclear physics and physics of**

## elementary particles

S46

*Bredikhin, I. (OOO «GammaTek», Moscow (RU)), e-mail: ivan@gammatech.pro*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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CAEN: istochniki pitaniya i tsifrovaya ehlektronika dlya yadernoj fiziki i fiziki chastits  
p. 45

(RU)

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NUCLEAR INSTRUMENT MODULES; DATA ACQUISITION SYSTEMS; ELECTRONIC EQUIPMENT; POWER SUPPLIES; DIGITAL CIRCUITS

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## Evolution of single-particle structure of nuclei with $N=28$ in dispersion optical model

S73

*Bespalova, O.V.; Klimochkina, A.A. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Vysshego Obrazovaniya "Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova", Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Ehvoljutsiya odnochastichnoj struktury yader s  $N=28$  v dispersionnoj opticheskoj modeli  
p. 46

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4 refs., 1 fig.

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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MAGIC NUCLEI; NUCLEAR STRUCTURE; CALCIUM 48; NICKEL 56; SILICON 42;

OPTICAL MODELS; ENERGY LEVELS; EXCITATION; EXPERIMENTAL DATA;

THEORETICAL DATA

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## **Forecasting of radiation resistance of different materials on the radiation testing installation based on IBR-2 reactor**

**S36**

*Bulavin, M.V.; Kulikov, S.A. (Ob''edinennyj Inst. Yadernykh Issledovanij, Lab. Nejtronnoj Fiziki im. I.M. Franka, Dubna (XJ))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primenenie»)

Prognozirovanie radiatsionnoj stojkosti razlichnykh materialov na ustanovke dlya radiatsionnykh issledovanij reaktora IBR-2

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(RU)

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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IBR-2 REACTOR; RADIATION HARDNESS; FORECASTING; NEUTRON FLUENCE; MATERIALS TESTING; SILICON; GALLIUM ARSENIDES; DIAMONDS

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## **Reaction with neutron escape on W: experimental verification of MC-simulation by means of GEANT4**

**S73;S62**

*Belyshev, S.S.; Bykhalo, G.I.; Stopani, K.A.; Khankin, V.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna - NIIYaF MGU im. M. V. Lomonosova, Moscow (RU))*

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Reaktsii s vyletom nejtronov na W: ehksperimental'naya verifikatsiya rezul'tatov MK-modelirovaniya na GEANT4

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## **Features of electromagnetic field created at interaction of narrow beam of high-energy particles with gas medium**

**S75**

*Valiev, F.F. (Federal'noe Gosudarstvennoe Byudzhethnoe Obrazovatel'noe Uchrezhdenie Vysshego Professional'nogo Obrazovaniya «Sankt-Peterburgskij Gosudarstvennyj Univ.», Sankt-Peterburg (RU))*

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p. 48

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ELECTRON BEAMS; GASES; TRANSMISSION; ELECTROMAGNETIC FIELDS; G CODES; MEV RANGE; ANGULAR DISTRIBUTION; COMPUTERIZED SIMULATION; THEORETICAL DATA

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## **Mechanism of almost synchronic shaping of random empirical discrete distributions of independent alpha-particle flux counts**

**S46**

*Vakhtel', V.M.; Rabotkin, V.A.; Akindinova, E.V. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: vakhtel@phys.vsu.ru*

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Mekhanizm pochty sinkhronnogo formirovaniya sluchajnykh ehmpiricheskikh diskretnykh raspredelenij otschetov nezavisimykh potokov al'fa-chastits

p. 49

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ALPHA DETECTION; COUNTING RATES; COUNTING CIRCUITS; STOCHASTIC PROCESSES; STATISTICS; THEORETICAL DATA; DATA PROCESSING

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## **Formation of sequences of empirical distributions of alpha-particle flux counts**

**S46**

*Akindinova, E.V.; Babenko, A.G.; Rabotkin, V.A.; Vakhtel', V.M.; Kharitonova, D.D. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: vakhtel@phys.vsu.ru*

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ALPHA DETECTION; DATA PROCESSING; COUNTING CIRCUITS; STOCHASTIC

PROCESSES; STATISTICS; CORRELATION FUNCTIONS; THEORETICAL DATA;

COUNTING RATES

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## **Influence of surface absorber density on apparatus line width of Moessbauer spectrum**

**S36**

*Vakhtel', V.M.; Dolgoplov, M.A.; Semov, Yu.G. (FGBOU VO «Voronezhskij GosUniv.», Voronezh (RU)), e-mail: mdolg@rambler.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Vliyanie poverkhnostnoj plotnosti poglotitelya na shirinu apparatnykh linij messbauehrovskogo

spektra

p. 51

(RU)

2 figs.

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### **Study of characteristics of Moessbauer spectrum in dependence on Fe<sub>2</sub>O<sub>3</sub> absorber parameters**

**S36**

*Vakhtel', V.M.; Dolgoplov, M.A.; Semov, Yu.G. (FGBOU VO «Voronezhskij GosUniv.», Voronezh (RU)), e-mail: mdolg@rambler.ru*

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Issledovanie kharakteristik messbauehrovskogo spektra v zavisimosti ot parametrov poglotitelya Fe<sub>2</sub>O<sub>3</sub>

p. 52

(RU)

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## **Quantum transparency of barriers for composite systems and ions**

S74

*Vinitsky, S.I.; Gusev, A.A.; Chuluunbaatar, O. (Joint Inst. for Nuclear Research, Dubna (XJ)); Krassovitskiy, P.M. (Inst. of Nuclear Physics, Almaty (KZ))*

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**Automation of control and monitoring system of electrostatic ion accelerator  
S43**

*Bekk, V.V.; Volkov, B.A.; Glushchenko, N.V.; Gorlachev, I.D.; Zheltov, A.A.; Kireev, A.V.; Liguz, N.S.; Platov, A.V. (Inst. Yadernoj Fiziki, Almaty (KZ))*

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Avtomatizatsiya sistemy upravleniya i kontrolya ehlektrostaticheskogo ionnogo uskoritelya p. 54

(RU)

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**Manifestation of superasymmetric fission modes  $^{254}\text{Fm}$  and  $^{260}\text{No}$  in the reactions  $^{22}\text{Ne} + ^{232}\text{Th}$ ,  $^{238}\text{U}$**

**S73**

*Gikal, K.B.; Kozulin, E.M.; Itkis, I.M.; Itkis, M.G.; Knyazheva, G.N.; Novikov, K.V. (Flerov Lab. of Nuclear Reactions, Joint Inst. for Nuclear Research, Dubna (XJ)); Pan, A.N. (Flerov Lab. of Nuclear Reactions, Joint Inst. for Nuclear Research, Dubna (XJ)); Inst. of Nuclear Physics of Ministry of Energy of the Republic of Kazakhstan, Almaty (KZ))*

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RANGE 10-100; COMPOUND NUCLEI; ENERGY SPECTRA; MASS DISTRIBUTION;

EXPERIMENTAL DATA

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**How smooth is the energy surface of even-even nuclei?**

**S73**

*Mikhajlov, V.M.; Vlasnikov, A.K.; Zippa, A.I. (Saint-Petersburg State Univ., Saint-Petersburg (RU))*

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WEIZSAECKER FORMULA; ENERGY LEVELS; THEORETICAL DATA

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## **New approaches to determination of the heavy ion's mass in measurements with PIN diodes**

**S46**

*Kamanin, D.V.; Strelalovsky, A.O.; Zhuchko, V.E. (Joint Inst. for Nuclear Research, Dubna (XJ)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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MASS SPECTROSCOPY; TIME-OF-FLIGHT METHOD; HEAVY IONS;  
SEMICONDUCTOR DETECTORS; ACCURACY; SEMICONDUCTOR DIODES

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### **Stability condition through nuclear masses differences**

**S73**

*Mikhajlov, V.M.; Vlasnikov, A.K.; Zippa, A.I. (Saint-Petersburg State Univ., Saint-Petersburg (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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### **Measurement of characteristic radiation of composite materials under gamma-irradiation by cobalt-57 source**

**S36**

*Burmistrov, Yu.M.; Zuev, S.V.; Lifanov, M.N.; Skorkin, V.M. (Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th**

**anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Izmerenie kharakteristicheskogo izlucheniya kompozitnykh materialov pri gamma-obluchanii istochnikom kobal't-57

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---

## **Atomic nuclei masses and proton pairing in isotopes $N=20, 28, 50, 82$**

**S73**

*Vladimirova, E.V.; Tret'yakova, T.Yu. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. imeni D.S. Skobel'tsyna (NIIYaF MGU), Moscow (RU)), e-mail: vladimirova.elena@physics.msu.ru; Ishkhanov, B.S. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU); Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. imeni D.S. Skobel'tsyna (NIIYaF MGU), Moscow (RU))*

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Massy atomnykh yader i sparivanie protonov v izotonakh  $N = 20, 28, 50, 82$

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PAIRING ENERGY; INTERMEDIATE MASS NUCLEI; EVEN-ODD NUCLEI; NUCLEAR STRUCTURE; THEORETICAL DATA

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## **Spectroscopic amplitudes for mixed configurations of separable clusters in shell model**

**S73**

*Galanina, L.I.; Zelenskaya, N.S. (Federal'noe Gosudarstvennoe Byudzhethoe Uchrezhdenie*

*Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova»,*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primenenie»)

Spektroskopicheskie amplitudy dlya smeshannykh konfiguratsij otdelyaemykh klasterov v obolochечноj modeli

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NUCLEAR STRUCTURE; LIGHT NUCLEI; SHELL MODELS; DECAY AMPLITUDES;  
ORBITAL ANGULAR MOMENTUM; SPIN; WAVE FUNCTIONS; THEORETICAL DATA

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## **Optical model code OptModel-R with account of resonance scattering**

**S73**

*Generalov, L.N.; Zhrebtsov, V.A.; Taova, S.M. (RFYaTs-VNIEhF, Sarov (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Optiko-model'nyj kod OptModel-R s uchetom rezonansnogo rasseyaniya

p. 59

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2 refs., 1 fig.

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## **Estimation of cross sections of radioactive $^{10}\text{Be}$ nuclei production at interaction of deuterons with $^9\text{Be}$**

**S73**

*Generalov, L.N.; Selyankina, S.M.; Taova, S.M.; Zhrebtsov, V.A. (RFYaTs-VNIIEhF, Sarov (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Otsenka sechenij obrazovaniya radioaktivnykh yader  $^{10}\text{Be}$  pri vzaimodejstvii dejtronov s  $^9\text{Be}$   
p. 60

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BERYLLIUM 9 TARGET; DEUTERON REACTIONS; BERYLLIUM 10; MEV RANGE 01-10; MEV RANGE 10-100; TOTAL CROSS SECTIONS; EVALUATED DATA

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## **Description of $\alpha$ -particle scattering channels on two-cluster nuclei in the framework of three-body problem in the self-consistent Schroedinger equation solution method**

**S73**

*Golovanova, N.F. (Rossijskij Gosudarstvennyj Univ. im. A.N. Kosygina (Tekhnologii. Dizajn. Iskusstvo), Moscow (RU)), e-mail: nina4110@yandex.ru; Golovanov, A.A. (Nezavisimyj Issledovatel', Moscow (RU)), e-mail: 699anton@gmail.com*

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Opisanie kanalov rasseyaniya  $\alpha$ -chastitsy na dvukhklasternykh yadrakh v ramkakh trekhchastichnoj zadachi v metode samosoglasovannogo resheniya uravneniya Shredingera

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## **Taking account of contribution of heavy meson resonances into singlet spin amplitudes of elastic proton-proton scattering at middle and high energies**

**S73**

*Golovanova, N.F. (Rossijskij Gosudarstvennyj Univ. im. A.N. Kosygina (Tekhnologii. Dizajn. Iskusstvo), Moscow (RU)), e-mail: nina4110@yandex.ru*

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Uchet vklada tyazhelykh mezonnykh rezanansov v singletnyuyu spinovuyu amplitudu uprugogo proton-protonnogo rasseyaniya pri srednikh i vysokikh ehnergiyakh

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## **Estimation of surface tension in atomic nuclei**

**S73**

*Goncharova, N.G. (Fizicheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

Otsenka poverkhnostnogo natyazheniya v atomnykh yadrakh

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NUCLEAR STRUCTURE; DEFORMED NUCLEI; EVEN-EVEN NUCLEI; ATOMIC NUMBER; THEORETICAL DATA

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## **Adiabatic representation for atomic trimers**

**S73**

*Gusev, A.A.; Vinitsky, S.I.; Chuluunbaatar, O. (Joint Inst. for Nuclear Research, Dubna (XJ));*

*Krassovitskiy, P.M. (Inst. of Nuclear Physics, Almaty (KZ))*

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NUCLEAR STRUCTURE; BOUNDARY-VALUE PROBLEMS; ADIABATIC

APPROXIMATION; BERYLLIUM; EIGENFUNCTIONS; EIGENVALUES; DIAGRAMS;

THEORETICAL DATA

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### **Activation measurements of integral cross sections of $^{12}\text{C}(\text{d},\text{n})^{13}\text{N}$ , $^{14}\text{N}(\text{d},\text{n})^{15}\text{O}$ , $^{14}\text{N}(\text{d},\text{t})^{13}\text{N}$ , $^{14}\text{N}(\text{d},\text{n} + \alpha)^{13}\text{N}$ , $^{16}\text{O}(\text{d},\text{n})^{17}\text{F}$ reactions**

**S73**

*Generalov, L.N.; Abramovich, S.N. (RFYaTs-VNIEhF, Sarov (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Aktivatsionnye izmereniya integral'nykh sechenij reaktsij  $^{12}\text{C}(\text{d},\text{n})^{13}\text{N}$ ,  $^{14}\text{N}(\text{d},\text{n})^{15}\text{O}$ ,  $^{14}\text{N}(\text{d},\text{t})^{13}\text{N}$ ,  $^{14}\text{N}(\text{d},\text{n} + \alpha)^{13}\text{N}$ ,  $^{16}\text{O}(\text{d},\text{n})^{17}\text{F}$

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### **Study of neutron halos in $^{12}\text{B}$**

**S73**

*Danilov, A.N.; Dem'yanova, A.S.; Ogloblin, A.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Issledovanie nejtronnogo galo v  $^{12}\text{B}$

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**BORON 12; NUCLEAR HALOS; NUCLEAR STRUCTURE; NUCLEAR RADII; DIFFERENTIAL CROSS SECTIONS; ENERGY LEVELS; EXPERIMENTAL DATA**

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### **Study of halos in isobaric analog states**

**S73**

*Dem'yanova, A.S.; Ogloblin, A.A.; Danilov, A.N. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Belyaeva, T.L. (Nezavisimyj Univ. Shtata Meksiko, Toluka (MX)); Goncharov, S.A. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU))*

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## **Study of exotic states in light nuclei**

**S73**

*Burtebaev, N.; Kerimkulov, Zh.K.; Alimov, D.K.; Mukhamedzhanov, E.S. (Inst. Yadernoj Fiziki, Almaty (KZ)); Dem'yanova, A.S. (NITs Kurchatovskij Inst., Moscow (RU)); Dzhansejtov, D.M. (Inst. Yadernoj Fiziki, Almaty (KZ); Ob''edinennyj Inst. Yadernykh Issledovanii, Dubna (XJ)), e-mail: janseit.daniar@gmail.com*

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Issledovanie ehkzoticheskikh sostoyanii v legkikh yadrakh

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CARBON 13; CLUSTER MODEL; NUCLEAR STRUCTURE; EXCITED STATES;  
NUCLEAR HALOS; NUCLEAR RADII

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## **Production of subthreshold pions in heavy ion collisions in hydrodynamic approach with nonequilibrium equation of state**

**S73**

*D'yachenko, A.T. (Peterburgskij Gosudarstvennyj Univ. Putej Soobshcheniya Imperatora Aleksandra I, Sankt-Peterburg (RU)); Mitropol'skij, I.A. (NITs «Kurchatovskij Inst.», Peterburgskij Inst. Yadernoj Fiziki im. B.P. Konstantinova, Gatchina (RU))*

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Rozhdenie podporogovykh pionov v stolknoveniyakh tyazhelykh ionov v gidrodinamicheskom podkhode s neravnovesnym uravneniem sostoyaniya

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HYDRODYNAMIC MODEL; EQUATIONS OF STATE; DIFFERENTIAL CROSS  
SECTIONS; THEORETICAL DATA

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### **Study of $D(^1\text{H},n)X$ , $D(^{20}\text{Ne},n)X$ reactions in the region of ultra-low energies** S73

*Bystritsky, V.M.; Filippov A.V. (Joint Inst. for Nuclear Research, Dubna (XJ)); Dudkin, G.N.; Nechaev, B.A.; Nurkin, A.; Padalko, V.N.; Varlachev, V.A. (National Scientific Research Tomsk Polytechnical Univ., Tomsk (RU)); Filipowicz, M. (AGH Univ. of Science and Technology, Faculty of Energy and Fuels, Cracow (PL)); Pen'kov, F.M.; Tuleushev, Yu.Zh. (Inst. of Nuclear Physics, Ministry of Energy, Almaty (KZ))*

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## **Study of $D(^3\text{He},p)^4\text{He}$ reaction in astrophysical region of energies**

**S73**

*Bystritsky, V.M.; Filippov, A.V.; Krylov, A.R. (Joint Inst. for Nuclear Research, Dubna (XJ)); Dudkin, G.N.; Nechaev, B.A.; Nurkin, A.; Padalko, V.N. (National Scientific Research Tomsk Polytechnical Univ., Tomsk (RU)); Filipowicz, M. (AGH Univ. of Science and Technology, Faculty of Energy and Fuels, Cracow (PL)); Pen'kov, F.M.; Tuleushev, Yu.Zh. (Inst. of Nuclear Physics, Ministry of Energy, Almaty (KZ))*

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### **Cluster effect as modulation of angular distributions in superposition form**

S73

*D'yachkov, V.V.; Zaripova, Yu.A.; Yushkov, A.V. (Inst. Eksperimental'noj i Teoreticheskoy Fiziki, Almaty (KZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Klasternyj ehffekt kak modulyatsiya uglovykh raspredelenij v forme superpozitsii

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### **Description of anomalies of nuclear scattering with Newman-Uni-Tamburine potential in framework of the curved Riemann space concept**

S73

*Yushkov, A.V.; D'yachkov, V.V.; Zaripova, Yu.A. (Inst. Eksperimental'noj i Teoreticheskoy Fiziki, Almaty (KZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th**

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Opisanie anomalij yadernogo rasseyaniya s potentsialom N'yumena-Unti-Tamburino v ramkakh kontseptsii iskrivlennogo rimanova prostranstva

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SCATTERING; S MATRIX; POTENTIAL ENERGY; RIEMANN SPACE; NUCLEAR POTENTIAL; ANGULAR DISTRIBUTION; THEORETICAL DATA

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## **Collective and quasiparticle degrees of freedom in bandcrossing for $^{124}\text{Xe}$**

**S73**

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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12-15 Sep 2017

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INTERACTING BOSON MODEL; NUCLEAR STRUCTURE; BOSONS; E2-TRANSITIONS;

PHONONS; SPIN; HAMILTONIANS; WOODS-SAXON POTENTIAL; THEORETICAL

DATA

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## **Experimental study of eta-meson and kaon production in Cu-Au interactions at energies of 200 GeV**

**S73**

*Berdnikov, Ya.A.; Berdnikov, A.Ya.; Zharko, S.V.; Kotov, D.O.; Radzevich, P.V. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Ehksperimental'nye issledovaniya rozhdeniya ehta-mezonov i kaonov v Cu+Au

vzaimodejstviyakh pri ehnergii 200 GeV

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application»). Abstracts

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PHENIX DETECTOR; BROOKHAVEN RHIC; HEAVY ION REACTIONS; COPPER; GOLD; KAONS; ETA MESONS; GEV RANGE 100-1000; QUARK MATTER; GLUONS; QUARKS; ENERGY LOSSES; TRANSVERSE MOMENTUM; EXPERIMENTAL DATA

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## Continuous proton spectra from interaction of 29 MeV $\alpha$ -particles with $^{29}\text{Al}$ and $^{59}\text{Co}$ nuclei

S73

Zholdybaev, T.K.; Sadykov, B.M.; Dujsebaev, B.A. (Inst. Yadernoj Fiziki KAEh MEh, Almaty (KZ)); Nasurlla, M. (Inst. Yadernoj Fiziki KAEh MEh, Almaty (KZ)); Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ)); Ismailov, K.M. (Nazarbaev Univ., Astana (KZ))

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Nepreryvnye spektry protonov iz vzaimodejstviya  $\alpha$ -chastits s ehnergiej 29 MehV s yadrami  $^{29}\text{Al}$  i  $^{59}\text{Co}$

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ALPHA REACTIONS; ALUMINIUM 29; COBALT 59 TARGET; MEV RANGE 10-100; PROTONS; DIFFERENTIAL CROSS SECTIONS; PROTON SPECTRA; ENERGY-LOSS SPECTROSCOPY; EXPERIMENTAL DATA

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**Multicluster effect in form of distribution of primary particle flux on separate channels of elastic scattering**

**S73**

*Zaripova, Yu.A.; D'yachkov, V.V.; Yushkov, A.V. (NII Eksperimental'noj i Teoreticheskoy Fiziki Kazakhskogo Natsional'nogo Univ. im. Al'-Farabi, Almaty (KZ)); Gridnev, D.K. (FIAS, Goethe Univ. Frankfurt, Frankfurt am Main (DE))*

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Mul'tiklasternyj ehffekt v vide raspredeleniya pervichnogo potoka chastits na otdel'nye kanaly uprugogo rasseyaniya

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NUCLEAR STRUCTURE; CLUSTER MODEL; ALPHA REACTIONS; ELASTIC SCATTERING; LIGHT NUCLEI; INTERMEDIATE MASS NUCLEI; MEV RANGE 10-100; WAVE FUNCTIONS; THEORETICAL DATA

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## **Spatial configuration of neutron-excess 1p-shell nuclei**

S73

*Galanina, L.I.; Zelenskaya, N.S. (Federal'noe Gosudarstvennoe Byudzhethnoe Uchrezhdenie Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova», Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Prostranstvennaya konfiguratsiya nejtronno-izbytochnykh yader 1p-obolochki

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NEUTRON-RICH ISOTOPES; TRITON REACTIONS; LITHIUM 9 TARGET; LITHIUM 11; PROTONS; LITHIUM 7 TARGET; BERYLLIUM 9 TARGET; BERYLLIUM 11; TWO-NUCLEON TRANSFER REACTIONS; DINEUTRONS; NUCLEAR STRUCTURE; FOUR-BODY PROBLEM; PROBABILITY DENSITY FUNCTIONS; WAVE FUNCTIONS; DIAGRAMS; THEORETICAL DATA

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## **Experimental study of total cross sections of nuclear reactions with neutron-excess helium and lithium isotopes on the MULTI facility**

S73

*Zernyshkin, V.A.; Penionzhkevich, Yu.Eh.; Lashmanov, N.A. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ)) (and others)*

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**and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Ehksperimental'noe issledovanie polnykh sechenij yadernykh reaktsij s nejtronoizbytochnymi izotopami geliya i litiya na ustanovke MULTI

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HELIUM 6 REACTIONS; HELIUM 8 REACTIONS; ALPHA REACTIONS; LITHIUM 6 REACTIONS; LITHIUM 7 REACTIONS; LITHIUM 9 REACTIONS; SILICON; TARGETS; TOTAL CROSS SECTIONS; MEASURING METHODS; TRANSMISSION; EXPERIMENT RESULTS

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## **Technique of operative tuning of electron beam energy during researches on the NS-LAE INR RAS neutron source**

S43

Zuev, S.V.; Konobeevskij, E.S.; Nedorezov, V.G.; Ponomarev, V.N.; Potashev, S.I.; Solodukhov, G.V. (*Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU)*)

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

Metodika operativnoj perestrojki ehnergii puchka ehlektronov uskoritelya pri issledovaniyakh na nejtronnom istochnike IN-LUEh IYaI RAN

p. 76

(RU)

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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LINEAR ACCELERATORS; ELECTRON BEAMS; ON-LINE MEASUREMENT SYSTEMS; TUNING; MEV RANGE 01-10; MAGNETIC SPECTROMETERS

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## **Possibility study of reconstruction of thermal and epithermal neutron spectrum of the INR RAS photoneutron source on neutron activation analysis data**

**S73**

*Afonin, A.A.; Zuev, S.V.; Konobeevskij, E.S. (Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Izuchenie vozmozhnosti vosstanovleniya teplovogo i ehpiteplovogo spektra nejtronov fotonejtronno go istochnika IYaI RAN po dannym nejtronno-aktivatsionnogo analiza

p. 77

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Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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### **Measurement of energy distribution of the LAE-8-5 INR RAS electron beam S43**

*Zuev, S.V.; Konobeevskij, E.S.; Nedorezov, V.G.; Ponomarev, V.N.; Potashev, S.I.; Solodukhov, G.V. (Inst. Yadernykh Issledovanij Rossijskoj Akademii Nauk, Moscow (RU))*

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Izmerenie ehnergeticheskogo raspredeleniya puchka ehlektronov uskoritelya LUEh-8-5 IYaI RAN

p. 77

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Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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LINEAR ACCELERATORS; ELECTRON BEAMS; ENERGY SPECTRA; MAGNETIC SPECTROMETERS; CALIBRATION; ON-LINE MEASUREMENT SYSTEMS; BEAM CURRENTS

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**Mechanism of  $\pi$ -mesons scattering in Glauber theory on  $^{6,8}\text{He}$  isotopes**  
S73

*Ibraeva, E.T. (Inst. Yadernoj Fiziki NYaTs RK, Almaty (KZ)); Imambekov, O.; Toksaba, Zh.A. (KazNU im. Al'-Farabi, Almaty (KZ)); Uzikov, Yu.N. (Ob''edinennyj Inst. Yadernykh Issledovanij (OIYaI), Dubna (XJ))*

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Mekhanizm rasseyaniya  $\pi$ -mezonov v glauberovskoj teorii na izotopakh  $^{6,8}\text{He}$

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PION REACTIONS; HELIUM 6 TARGET; HELIUM 8; SCATTERING; DIFFERENTIAL CROSS SECTIONS; GLAUBER THEORY; MULTIPLE SCATTERING; WAVE FUNCTIONS; NUCLEAR STRUCTURE; CLUSTER MODEL; GEV RANGE 01-10; THEORETICAL DATA

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**Inelastic proton scattering on  $^{13,15}\text{C}$  nuclei in Glauber theory**  
S73

Zhusupov, M.A.; Kabataeva, R. (*Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ)*);  
Ibraeva, E.T. (*Inst. Yadernoj Fiziki RK, Almaty (KZ)*)

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Neuprugoe rasseyanie protonov na yadrakh  $^{13,15}\text{C}$  v glauberovskoj teorii

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4 refs., 2 figs.

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PROTON REACTIONS; CARBON 13 TARGET; CARBON 15; INELASTIC SCATTERING; GLAUBER THEORY; DIFFERENTIAL CROSS SECTIONS; WAVE FUNCTIONS; DIAGRAMS; ENERGY DEPENDENCE; MEV RANGE 100-1000; THEORETICAL DATA

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## **Comparative analysis of proton scattering on $^9\text{B}$ , $^9\text{Be}$ in Glauber theory**

### **S73**

Ibraeva, E.T.; Burtebaev, N.T. (*Inst. Yadernoj Fiziki RK, Almaty (KZ)*); Uzikov, Yu.N. (*Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)*)

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Sravnitel'nyj analiz rasseyaniya protonov na izotopakh  $^9\text{B}$ ,  $^9\text{Be}$  v gauberovskoj teorii  
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WAVE FUNCTIONS; MULTIPLE SCATTERING; DIAGRAMS; THEORETICAL DATA;

EXPERIMENTAL DATA; COMPARATIVE EVALUATIONS

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## **New calculation of rate of the astrophysical reation $^{12}\text{C}(p,\gamma)^{13}\text{N}$**

**S73**

*Igamov, S.B.; Artemov, S.V.; Karakhodjaev, A.A. (Inst. of Nuclear Physics of Uzbekistan Academy of Sciences, Tashkent (KZ)) (and others)*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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### **Fine structure of the $\beta$ -decay strength function and oscillation of the isovector nuclear density components**

**S73**

*Izosimov, I.N.; Solnyshkin, A.A.; Khushvaktov, J.H. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: izosimov@jinr.ru*

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## **Rare decays of B mesons**

**S72**

*Isadykov, A.; Ivanov, M.A. (LTF, OIYaI, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Redkie raspady B mezona

p. 82

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## **Identical nucleon pairing in isotopes near $^{90}\text{Zr}$**

**S73**

*Imasheva, L.T.; Stepanov, M.E. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Ishkhanov, B.S.; Tret'yakova, T.Yu. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Sparivanie tozhdestvennykh nuklonov v izotopakh vblizi  $^{90}\text{Zr}$

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### **A detailed experimental investigation of the KLL Auger electron spectrum of Zr S73**

*Inoyatov, A.Kh. (JINR, Dubna (XJ); UNU, Tashkent (UZ)), e-mail: inoyatov@jinr.ru; Kovalík, A. (JINR, Dubna (XJ); NPI ASCR, Řež (CZ)); Muminov, T.M. (UNU, Tashkent (UZ));*

*Perevoshchikov, L.L.; Filosofov, D.V. (JINR, Dubna (XJ)); Vénos, D. (NPI ASCR, Řež (CZ))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

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NIOBIUM 90; ENERGY-LEVEL TRANSITIONS; EXPERIMENTAL DATA; ENERGY

RESOLUTION; ACCURACY

---

## **The effect of the atomic environment on the KLM+KLN Auger electron spectrum of rubidium**

**S73**

*Inoyatov, A.Kh. (JINR, Dubna (XJ); UNU, Tashkent (UZ)), e-mail: inoyatov@jinr.ru; Kovalík,*

*A. (JINR, Dubna (XJ); NPI ASCR, Řež (CZ)); Perevoshchikov, L.L.; Filosofov, D.V. (JINR,*

*Dubna (XJ)); Vénos, D. (NPI ASCR, Řež (CZ)); Lee, B.Q. (ANU, Canberra (AU)); Ekman, J.*

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## **Monte Carlo calculation of correlations in four-proton decay**

**S73**

*Ismailova, A.N.; Grikorenko, L.V.; Sharov, P.G. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ); Gosudarstvennyj Univ. «Dubna», Dubna (RU))*

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Raschet korrelyatsij pri chetyrekhprotonnom raspade metodom Monte-Karlo

p. 86

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## **Two-proton virtual decay of $^{19}\text{Mg}$ in superfluid model**

**S73**

*Ivankov, Yu.V.; Kadenskij, S.G. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: kadensky@phys.vsu.ru*

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Dvukhprotonnyj virtual'nyj raspad  $^{19}\text{Mg}$  v sverkhstekuchej modeli

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5 refs., 1 tab.

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MAGNESIUM 19; PROTON-EMISSION DECAY; DIPROTONS; ANGULAR DISTRIBUTION; NEON 17; LINE WIDTHS; SUPERFLUID MODEL; THEORETICAL DATA

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## **Development of quasi monochromatization method of Bremsstrahlung spectrum for measurement of photonuclear reaction cross sections near threshold**

**S73**

*Nederezov, V.G.; Konobeevskij, E.S.; Zuev, S.V.; Burmistrov, Yu.M.; Ponomarev, V.N.; Potashev, S.I.; Solodukhov, G.V.; Turinge, A.A. (Inst. Yadernykh Issledovanij Rossijskoj*

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12-15 Sep 2017

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Razrabotka metoda kvazimonokhromatizatsii tormoznogo spektra dlya izmereniya sechenij fotoyadernykh reaktsij vblizi poroga

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PHOTONUCLEAR REACTIONS; CROSS SECTIONS; BREMSSTRAHLUNG; MEV RANGE 01-10; CADMIUM ISOTOPES; INDIUM ISOTOPES; GAMMA SPECTRA

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### **Inverse quasi fission in reactions $^{156,160}\text{Gd} + ^{186}\text{W}$**

**S73**

*Itkis, I.M.; Knyazheva, G.N.; Kozulin, E.M. (Flerov Lab. of Nuclear Reactions, Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: jitkis@jinr.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

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application»). Abstracts

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HEAVY ION FUSION REACTIONS; GADOLINIUM 156; GADOLINIUM 160; TUNGSTEN 186 TARGET; MEV RANGE 100-1000; NUCLEAR REACTION YIELD; MULTI-NUCLEON TRANSFER REACTIONS; NUCLEAR FRAGMENTS; QUASI-FISSION

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## **Application of T-invariance conditions for selection of mechanisms of nuclear reactions, decays and nuclei fission**

**S73**

*Kadmenskij, S.G.; Kostryukov, P.V. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: kadmensky@phys.vsu.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Ispol'zovanie uslovij t-invariantnosti dlya otbora mekhanizmov yadernykh reaktsij, raspadov i deleniya yader

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T INVARIANCE; BINARY FISSION; TERNARY FISSION; ASYMMETRY; ANISOTROPY; NUCLEAR REACTION KINETICS; CROSS SECTIONS; NUCLEAR DECAY; THEORETICAL DATA

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## **Angular distributions of protons for two-proton decays of superfluid nuclei and diproton correlations**

**S73**

*Kadmenskij, S.G.; Bulychev, A.O.; Ivankov, Yu.V. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: kadmensky@phys.vsu.ru*

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Uglovye raspredeleniya protonov dlya dvukhprotonnykh raspadov sverkhstekuchikh yader i diprotonnye korrelyatsii

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PROTON-EMISSION DECAY; DIPROTONS; ANGULAR DISTRIBUTION; SUPERFLUID MODEL; LINE WIDTHS; IRON 45; DIAGRAMS; THEORETICAL DATA

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### **Observation of true ternary and quaternary fission of low excited actinides**

**S73**

*Kamanin, D.V.; Strelakovsky, A.O. (National Nuclear Research Univ. MEPhI (Moscow Engineering Physics Inst.), Moscow (RU)); Pyatkov, Yu.V. (Joint Inst. for Nuclear Research, Dubna (XJ); National Nuclear Research Univ. MEPhI (Moscow Engineering Physics Inst.), Moscow (RU)); Mkaza, N.; Malaza, V. (Univ. of Stellenbosch, Faculty of Military Science, Military Academy, Saldanha (ZA))*

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QUATERNARY FISSION; TERNARY FISSION; FISSION FRAGMENTS; ACTINIDES

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### **Accuracy of coordinate determination by charge division method in position sensitive boron-10 detector of thermal neutrons**

**S46**

*Potashev, S.I.; Burmistrov, Yu.M.; Karaevskij, S.Kh. (FGBUN Inst. Yadernykh Issledovaniy Rossijskoj Akademii nauk, Moscow (RU)); Drachev, A.I. (OAO GNTs RF GNIKhTEhOS,*

*Moscow (RU)*

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Tochnost' opredeleniya koordinat metodom deleniya zaryada v pozitsionno-chuvstvitel'nom detektore teplovykh nejtronov na osnove bora-10

p. 91

(RU)

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POSITION SENSITIVE DETECTORS; BORON LINED COUNTERS; THERMAL NEUTRONS; SPATIAL RESOLUTION; ACCURACY; EFFICIENCY

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## **Co-axial fission into three comparable fragments**

**S73**

*Karpeshin, F.F. (D.I. Mendeleev Inst. for Metrology, Saint-Petersburg (RU)), e-mail:*

*fkarpeshin@gmail.com*

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TERNARY FISSION; FISSION FRAGMENTS; ANGULAR DISTRIBUTION; NUCLEAR

REACTION KINETICS; TRAJECTORIES; SCISSION-POINT MODEL; THEORETICAL

DATA

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## **Nuclear clock and the related technologies of the next generation**

**S74**

*Karpeshin, F.F.; Vitushkin, L.F. (D.I. Mendeleev Inst. for Metrology, Saint-Petersburg (RU)),*

*e-mail: fkarpeshin@gmail.com; Trzhaskovskaya, M.B. (PNPI Kurchatov Center, Moscow (RU))*

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THORIUM 229; ATOMIC CLOCKS; OPTICAL PUMPING; EXPERIMENT RESULTS; LINE WIDTHS; EXCITED STATES

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## **Optimization methods of spectra from two-dimensional diagrams of correlating observations in nuclear reactions**

**S73**

*Zuev, S.V.; Kasparov, A.A.; Konobeevskij, E.S. (Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU))*

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Metody optimizatsii spektrov iz dvumernykh diagramm korreliuyushchikh nablyudaemykh v yadernykh reaktsiyakh

p. 93

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NUCLEAR REACTIONS; SPECTRA UNFOLDING; TWO-DIMENSIONAL CALCULATIONS; OPTIMIZATION; CORRELATIONS; NUCLEAR REACTION KINETICS

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## Calculation of isotope composition of catalytic material under irradiation by reactor neutrons

S36

*Abishev, M.; Kenzhebaev, N.; Khasanov, M.; Dzhaniybekov, A. (KazNU im. Al'-Farabi, Fiziko-Tekhnicheskij Fakul'tet, Almaty (KZ))*

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Raschet izotopnogo sostava kataliticheskogo materiala pri obluchenii reaktornymi nejtronami p. 93-94

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CATALYTIC EFFECTS; ISOTOPE RATIO; NEUTRON FLUX; COMPUTERIZED SIMULATION; LEAD 204; LEAD 205; IRRADIATION; THEORETICAL DATA

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## Experimental and theoretical study of $^{10}\text{B}(p,\alpha)^7\text{Be}$ reaction for low energy

S73

*Burtebaev, N.; Kerimkulov, Zh.K.; Zazulin, D.M.; Alimov, D.K.; Mukhamedzhanov, E.S.; Nasurulla, M.; Khodzhaev, R.A. (RGP «Inst. Yadernoj Fiziki» MEh RK, Almaty (KZ))*

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Ehksperimental'noe i teoreticheskoe issledovanie reaktsii  $^{10}\text{B}(p,\alpha)^7\text{Be}$  pri nizkikh ehnergiyakh p. 94-95

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application»). Abstracts

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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PROTON REACTIONS; BORON 10 TARGET; ALPHA PARTICLES; BERYLLIUM 7; KEV

RANGE 100-1000; DIFFERENTIAL CROSS SECTIONS; TOTAL CROSS SECTIONS;

ELASTIC SCATTERING; THEORETICAL DATA; EXPERIMENTAL DATA

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## Charge radii of Sn and B isotopes in dispersion optical model

S73

*Bespalova, O.V.; Ermakova, T.A.; Klimochkina, A.A.; Spasskaya, T.I. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Vysshego Obrazovaniya "Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova", Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Zaryadovye radiusy izotopov Sn v dispersionnoj opticheskoj modeli

p. 95



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4 refs.

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TIN ISOTOPES; OPTICAL MODELS; NUCLEAR RADII; EVEN-EVEN NUCLEI; THEORETICAL DATA

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## **Neutron halo in Zr isotopes near the neutron stability boundary in dispersion optical model**

**S73**

*Bespalova, O.V.; Klimochkina, A.A. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Vysshego Obrazovaniya "Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova", Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Nejtronnoe galo v izotopakh Zr vblizi granitsy nejtronnoj stabil'nosti v dispersionnoj opticheskoj modeli

p. 96

(RU)

5 refs., 1 fig.

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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ZIRCONIUM ISOTOPES; NUCLEAR HALOS; OPTICAL MODELS; NUCLEAR RADII; NUCLEAR STRUCTURE; HARTREE-FOCK METHOD; ENERGY LEVELS; DIAGRAMS; THEORETICAL DATA

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### **On the possibility of triggered de-excitation of $^{110m}\text{Ag}$ isomer in laser plasma S73**

*Koltsov, V.V. (Khlopin Radium Inst., Saint-Petersburg (RU)), e-mail: vladimir-koltsov@yandex.ru*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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p. 97

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4 refs., 2 figs.

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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SILVER 110; DE-EXCITATION; ISOMERIC NUCLEI; PROBABILITY; DIAGRAMS; ENERGY-LEVEL TRANSITIONS; THEORETICAL DATA

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## Search of new isomer state in $^{186}\text{Re}$ nucleus

S73

*Karasev, V.V.; Kol'tsov, V.V.; Rimskij-Korsakov, A.A. (AO "Radiyevy Inst. im. V.G. Khlopina", Sankt-Peterburg (RU)), e-mail: vladimir-koltsov@yandex.ru*

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Poisk novogo izomernogo sostoyaniya v yadre  $^{186}\text{Re}$

p. 98

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2 refs., 2 figs.

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---

## Possibility of neutron-neutron correlations in halo-nuclei

S73

*Konobeevskij, E.S.; Zavarzina, V.P.; Zuev, S.V.; Kasparov, A.A.; Kurlovich, A.S.; Mitsuk, V.V. (Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU))*

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Vozmozhnost' issledovaniya nejtron-nejtronnykh korrelyatsij v galo-yadrakh

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NUCLEAR HALOS; CORRELATIONS; LITHIUM 6; ANGULAR DISTRIBUTION;

EXPERIMENT PLANNING

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## Theoretical study of the neon clusters

S73

*Korobitsin, A.A.; Kolganova, E.A. (Bogoliubov Lab. of Theoretical Physics, Joint Inst. for Nuclear Research, Dubna (XJ))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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ATOMIC CLUSTERS; FADDEEV EQUATIONS; THREE-BODY PROBLEM; NEON 20; BINDING ENERGY; GROUND STATES; COMPUTER CALCULATIONS; DIAGRAMS; THEORETICAL DATA

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## **Hadron and quark form factors in the relativistic harmonic oscillator model**

**S73**

*Myrzabekova, E.B.; Sagimbaeva, N.B.; Burov, V.V. (Joint Inst. for Nuclear Research, Bogolubov Lab. of Theoretical Physics, Dubna (XJ))*

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HARMONIC OSCILLATOR MODELS; FORM FACTORS; HADRONS; QUARKS;  
THEORETICAL DATA

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**Test of nuclear fragmentation models with carbon fragmentation at 0.95 GeV/n**  
**S73**

*Abramov, B.M.; Alexeev, P.N.; Borodin, Yu.A. (NRC «Kurchatov Inst.», ITEP, Moscow (RU))  
(and others)*

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p. 101

(EN)

5 refs.

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CARBON 12 TARGET; BERYLLIUM; TARGETS; NUCLEAR FRAGMENTS; GEV RANGE; NUCLEAR FRAGMENTATION; DIFFERENTIAL CROSS SECTIONS;  
THEORETICAL DATA

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**Statistical description of nucleus-precursor assembly decay in the framework of sub-Poisson distribution**

**S73**

*Korbut, T.N.; Rudak, Eh.A.; Petrovskij, A.M. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob''edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij – Sosny» Natsional'noj Akademii Nauk Belarusi, Minsk (BY)), e-mail: tamara.korbut@gmail.com*



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Statisticheskoe opisanie raspada ansamblya yader-predshestvennikov v ramkakh subpuassonovskogo raspredeleniya

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2 refs.

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URANIUM 235; NUCLEAR DECAY; NEUTRON REACTIONS; CRITICALITY;  
STATISTICAL MODELS; THEORETICAL DATA

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## **The estimation of experiment uncertainties on criticality using polynomial chaos approaches**

**S46;S73**

*Kravchenko, M.O.; Kuz'min, A.V. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob'edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovaniy – Sosny» Natsional'noj Akademii Nauk Belarusi, Minsk (BY)), e-mail: max.slevin.grey@gmail.com*

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Otsenka neopredelennostej ehksperimentov po kritichnosti s ispol'zovaniem metodov polinomial'nogo khaosa

p. 102

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5 refs.

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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NUCLEAR REACTIONS; CROSS SECTIONS; COMPUTERIZED SIMULATION; DATA PROCESSING; CHAOS THEORY; DATA COVARIANCES; THEORETICAL DATA

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## **Asymptotic behavior of solutions in finite-different schemes**

S72

*Krassovitskiy, P.M.; Pen'kov, F.M. (Inst. of Nuclear Physics, Almaty (KZ)), e-mail: pavel.kras@inp.kz*

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SCHROEDINGER EQUATION; ASYMPTOTIC SOLUTIONS; FINITE DIFFERENCE METHOD; MANY-BODY PROBLEM; MULTIPLE SCATTERING; CROSS SECTIONS; THEORETICAL DATA

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### **Isospin GDR spallation and photonuclear reactions on tin isotopes**

**S73**

*Belyshev, S.S.; Buvina, Yu.A. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)), e-mail: kuznets@depni.sinp.msu.ru; Ishkhanov, B.S. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovsk Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)); Fizicheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)); Kuznetsov, A.A.; Orlin, V.N.; Stopani, K.A.; Khankin, V.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU))*

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Izospinovoe rasshchepenie GDR i fotoprotonnyye reaktsii na izotopakh olova

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## **New technique of ultraprecise neutron spectroscopy**

**S46;S73**

*Kuznetsov, I.A.; Berdnikov, A.Ya.; Braginets, Yu.P. (NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU)); Berdnikov, Ya.A.; Borisov, Yu.V. (Sankt-Peterburgskij Politekhnikeskij Univ. Petra Velikogo, Sankt-Peterburg (RU)); Voronin, V.V.; Lasitsa, M.V.; Semenikhin, S.Yu.; Fedorov, V.V. (NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU)); Sankt-Peterburgskij Politekhnikeskij Univ. Petra Velikogo, Sankt-Peterburg (RU))*

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Novyj metod ul'trapretsizionnoj nejtronnoj spektrometrii

p. 104-105

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1 fig.

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NEUTRON SPECTROSCOPY; INTERFEROMETRY; BRAGG REFLECTION; SPIN ECHO; INTERFEROMETERS; FLOWSHEETS; SENSITIVITY

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## Empirical estimation of photodisintegration rates of $^{106}\text{Cd}$ and $^{108}\text{Cd}$

S73

*Belyshev, S.S. (Faculty of Physics, Lomonosov Moscow State Univ., Moscow (RU)), e-mail: hatta@depni.sinp.msu.ru; Khankin, V.V.; Kuznetsov, A.A.; Stopani, K.A. (Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU))*

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PHOTONUCLEAR REACTIONS; CADMIUM 106 TARGET; CADMIUM 108 TARGET; PHOTONEUTRONS; PHOTOPROTONS; NUCLEAR REACTION YIELD; CROSS SECTIONS; THEORETICAL DATA

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## Resonant coherent production of pion pairs in reactions $pd \rightarrow pd\pi\pi$ in the GeV energy range

S73

*Komarov, V.I.; Kunsafina, A.G.; Kurmanaliev, Zh.K.; Tsirkov, D.A. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and**

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Rezonansno-kogerentnoe rozhdenie pionnykh par v reaktsii  $pd \rightarrow pd\pi\pi$  v oblasti ehnergii GeV

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5 refs.

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**M1 resonance on excited states in 2s1d-shell nuclei**

**S73**

*Kachan, A.S.; Kurguz, I.V.; Mishchenko, V.M.; Utenkov, S.N. (Inst. Fiziki Vysokikh Ehnergij i Yadernoj Fiziki NNTs KhFTI NAN Ukrainy, Khar'kov (UA))*

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M1-rezonans na vzbuzhdennykh sostoyaniyakh v yadrakh 2s1d-obolochki

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1 ref.



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NEON 22; MAGNESIUM 26; SILICON 30; ARGON 38; SULFUR 36; NUCLEAR STRUCTURE; M1-TRANSITIONS; EXCITED STATES; EXPERIMENTAL DATA

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### **Study of mechanism of $^{13}\text{C}(d,p)^{14}\text{C}$ reaction at $E_d=15.3$ MeV**

**S73**

*Galanina, L.I.; Zelenskaya, N.S.; Lebedev, V.M.; Orlova, N.V.; Spasskij, A.V. (Federal'noe Gosudarstvennoe Byudzhetnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova», Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Issledovanie mekhanizma reaktsii  $^{13}\text{C}(d,p)^{14}\text{C}$  pri  $E_d = 15.3$  MeV

p. 107

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7 refs., 1 fig.

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CARBON 13 TARGET; CARBON 14; DEUTERON REACTIONS; PROTONS; MEV RANGE 10-100; DIFFERENTIAL CROSS SECTIONS; ANGULAR DISTRIBUTION; NUCLEAR REACTION KINETICS; COUPLED CHANNEL BORN APPROXIMATION; THEORETICAL DATA; EXPERIMENTAL DATA; COMPARATIVE EVALUATIONS; DIAGRAMS

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## **Study of fragmentation processes in asymmetric nuclei collisions**

**S73**

*Grushevskaya, E.A.; Lebedev, I.A.; Temiraliyev, A.T.; Fedosimova, A.I.; Kharchevnikov, P.B. (Fiziko-Tekhnicheskij Inst., Almaty (KZ))*

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Issledovanie fragmentatsionnykh protsessov v soudareniyakh asimmetrichnykh yader  
p. 108

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2 refs.

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## Spectroscopy of $^8\text{He}$ in capture reaction of stopped pions by $^{11}\text{B}$ nuclei

S73

Gurov, Yu.B.; Zhean Korotkova, L.Yu.; Lapushkin, S.V.; Leonova, T.I.; Pritula, R.V.; Sandukovskij, V.G.; Chernyshev, B.A.; Shchurenkova, T.D. (*Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)*), e-mail: tileonova@yandex.ru

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Spektroskopiya  $^8\text{He}$  v reaktsii pogloshcheniya ostanovivshikhsya pionov yadrami  $^{11}\text{B}$

p. 109

(RU)

6 refs., 1 fig.

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BORON 11 TARGET; PION REACTIONS; HELIUM 8; EXCITED STATES; PROTONS; DEUTERONS; MISSING-MASS SPECTRA; EXPERIMENTAL DATA

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## Dependence of multiple processes on interaction range dimensions in collisions of protons and high energy nuclei

S73

Argynova, A.Kh.; Gajtinov, A.Sh.; Loktionov, A.A. (*Fiziko-Tekhnicheskij Inst., Almaty (KZ)*); Kvochkina, T.N. (*Inst. Yadernoj Fiziki, Almaty (KZ)*)

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Zavisimost' mnozhestvennykh protsessov ot razmerov oblasti vzaimodejstviya v soudareniyakh protonov i yader vysokikh ehnergij

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INTERACTION RANGE; SCATTERING; MULTIPLICITY; FLUCTUATIONS; PROTONS; NUCLEI; CORRELATIONS; THEORETICAL DATA

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**Study with ultracold neutrons and possibility of creation of UCN source on WWR-K reactor**

**S21**

*Lychagin, E.V. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Issledovanie s ul'trakholodnymi nejtronami i vozmozhnost' sozdaniya istochnika UKhN na reaktore VVR-K

p. 111

(RU)

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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ULTRACOLD NEUTRONS; HELIUM; PIK REACTOR; FEASIBILITY STUDIES;

NEUTRON FLUX; FLUX DENSITY

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## Evolution of shell structure of silicon and sulfur isotopes

S73

*Markova, M.L. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Fizicheskij Fakul'tet,*

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*(RU))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primenenie»)

Ehvoljutsiya obolocheknoy struktury izotopov kremniya i sery

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SILICON 30; SULFUR 32; NUCLEAR STRUCTURE; OPTICAL MODELS; NEUTRON-RICH ISOTOPES; ENERGY LEVELS; EXPERIMENT RESULTS; THEORETICAL DATA

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**Energy dependence of cross section of  $pp \rightarrow \left. \begin{matrix} pp \\ \pi^0 \end{matrix} \right\}$  with production of  $^1S_0$  diproton in the energy range of 1-3 GeV**

**S73**

*Kurmanaliev, Zh.K.; Kunsafina, A.G.; Tsirkov, D.A.; Komarov, V.I. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ))*

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Ehnergeticheskaya zavisimost' secheniya reaktsii  $pp \rightarrow \left. \begin{matrix} pp \\ \pi^0 \end{matrix} \right\}$  obrazovaniem  $^1S_0$  diprotona v diapazone ehnergij 1-3 GeV

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PROTON REACTIONS; HYDROGEN 1 TARGET; DIPROTONS; GEV RANGE 01-10;  
PIONS NEUTRAL; ENERGY DEPENDENCE; CROSS SECTIONS; EXPERIMENTAL  
DATA

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## **Meson photoproduction on neutron in the A2 experiment**

**S73**

*Bulychjov, S.A.; Kudryavtsev, A.E.; Kulikov, V.V.; Martemianov, M.A.; Tarasov, V.E. (NRC «Kurchatov Inst.» - ITEP, Moscow (RU)); Lizunova, M.A.; Romanov, A.I. (MEPhI, Moscow (RU)); Briscoe, W.J.; Strakovsky, I.I. (George Washington Univ., Washington US)*

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PHOTOPRODUCTION; PHOTONUCLEAR REACTIONS; DEUTERIUM TARGET;  
MESONS; NEUTRONS; MEV RANGE 100-1000; NEUTRON DETECTION;  
EXPERIMENTAL DATA

---

## **Experimental study with the aim of definition of fission rate of $^{235}\text{U}$ nuclei on measured activity of different radioisotopes - fission products**

**S73**

*Medetbekov, B.S.; Alejnikov, Yu.V.; Popov, Yu.A. (Filial «Inst. Atomnoj Ehnergii» NYaTs RK, Kurchatov (KZ))*

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**anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Ehksperimental'nye issledovaniya s tsel'yu opredeleniya skorosti deleniya yader  $^{235}\text{U}$  po izmerennoj aktivnosti razlichnykh radionuklidov - produktov deleniya

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FISSION; URANIUM 235; NUCLEAR REACTION KINETICS; URANIUM DIOXIDE;  
FISSION PRODUCTS; ACTIVATION ANALYSIS; GAMMA SPECTROSCOPY;  
ZIRCONIUM 95; ZIRCONIUM 97; IODINE 131; RUBIDIUM 103; BARIUM 140;  
LANTHANUM 140; CERIUM 141; EXPERIMENTAL DATA

---

## **Self-congruent microscopic calculations of radiation characteristics of nuclear reactions. Comparison of different approaches**

**S73**

*Achakovskij, O.I. (GNTs RF Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)); Kamerdzhev, S.P. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Lyutorovich, N.A.; Tselyaev, V.I. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU))*

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Samosoglasovannye mikroskopicheskie raschety radiatsionnykh kharakteristik yadernykh reaktzij. Sravnenie razlichnykh podkhodov

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3 refs.

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MAGIC NUCLEI; CAPTURE; NEUTRON REACTIONS; SKYRME POTENTIAL; PHONONS; MEAN-FIELD THEORY; LEVEL WIDTHS; REVIEWS; STRENGTH FUNCTIONS

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## Structure and properties of nuclear isomers

S73

*Kabina, L.P.; Lisin, S.S.; Mitropol'skij, I.A. (NITs «Kurchatovskij Inst.», Peterburgskij Inst. Yadernoj Fiziki im. B.P. Konstantinova, Gatchina (RU))*

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Struktura i svojstva yadernykh izomerov

p. 115

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450 p.

ISOMERIC NUCLEI; MASS NUMBER; NUCLEAR STRUCTURE; EXCITATION; LIFETIME; NUCLEAR DECAY; DIAGRAMS

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## **Study of neutron yield on tungsten target depending on electron energy from the LUEh-8 accelerator by means of detectors based on helium-3 and boron-10**

**S73**

*Meshkov, I.V.; Kuznetsov, S.P. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Fizicheskij Inst. im. P.N. Lebedeva Rossijskoj Akademii Nauk (FIAN), Moscow (RU)); Potashev, S.I.; Burmistrov, Yu.M.; Karaevskij, S.Kh.; Zuev, S.V.; Solodukhov, G.V. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Inst. Yadernykh Issledovanij Rossijskoj Akademii Nauk (IYaI), Moscow (RU))*

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Issledovanie zavisimosti vykhoda nejtronov na vol'framovoj misheni ot ehnergii ehlektronov uskoritelya LUEh-8 s pomoshch'yu detektorov na osnove geliya-3 i bora-10

p. 116

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Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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TUNGSTEN; TARGETS; ELECTRON REACTIONS; NEUTRONS; NUCLEAR REACTION  
YIELD; ENERGY DEPENDENCE; HE-3 COUNTERS; EFFICIENCY; POSITION  
SENSITIVE DETECTORS; MEV RANGE 01-10; EXPERIMENTAL DATA

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## **$\Delta E$ -E telescope for charged particle detection based on Si detector and Si photomultiplier matrix with crystal scintillators**

**S73;S46**

*Mitsuk, V.V.; Mordovskoj, M.V. (Inst. Yadernykh Issledovaniy RAN, Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th  
anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear  
and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear  
spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and  
its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i  
ee primeneniye»)

$\Delta E$ -E teleskop dlya registratsii zaryazhennykh chastits na osnove Si-detektora i matritsy Si FEhU  
so stsintillyatsionnymi kristallami

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DEUTERIUM TARGET; DEUTERON REACTIONS; PROTONS; NEUTRONS; CHARGED  
PARTICLE DETECTION; SI SEMICONDUCTOR DETECTORS; PHOTOMULTIPLIERS;  
SOLID SCINTILLATION DETECTORS; TELESCOPE COUNTERS

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## Neutron fluxes and radiation material heating in WWR-K reactor channels for UCN sources

S73

*Sharapov, E.I.; Lychagin, E.V. (Ob"edinennyj Inst. Yadernykh Issledovanij, Lab. Nejtronnoj Fiziki im. I.M. Franka, Dubna (XJ)); Moldagalieva, A.A. (Gosudarstvennoe Byudzhetnoe Uchrezhdenie Vysshego Obrazovaniya Moskovskoj Oblasti «Univ. «Dubna», Dubna (RU)), e-mail: oijanka@mail.ru*

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Nejtronnye potoki i radiatsionnyj nagrev materialov v kanalakh reaktora VVR-K dlya istochnikov UKhN

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ULTRACOLD NEUTRONS; NEUTRON FLUX; COMPUTERIZED SIMULATION; NEUTRON TRANSPORT; RADIATION HEATING; GAMMA TRANSPORT THEORY; THEORETICAL DATA

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## Radiative capture of ${}^7\text{Be}(p,\gamma){}^8\text{B}$ at low energies

S73

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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## **Study of elastic and inelastic scattering of deuterons from $^9\text{Be}$ nuclei**

**S73**

*Burtebayev, N.; Kerimkulov, Zh.K.; Burtebayeva, J. (Inst. of Nuclear Physics, Almaty (KZ)) (and others)*

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application»). Abstracts

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MODELS; NUCLEAR FRAGMENTS; SI SEMICONDUCTOR DETECTORS;

EXPERIMENTAL DATA; THEORETICAL DATA

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## **Combined neutron moderator for performance of nuclear physical experiments on the IBR-2 reactor**

**S07**

*Anan'ev, V.D.; Mukhin, K.A.; Rogov, A.D. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primenenie»)

Kombinirovannyj zamedlitel' nejtronov dlya provedeniya yaderno-fizicheskikh issledovanij na rekatore IBR-2

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IBR-2 REACTOR; ULTRACOLD NEUTRONS; MODERATORS; NEUTRON FLUX;  
REACTOR NEUTRON SOURCE FACILITIES; CRYOGENICS; NEUTRON SPECTRA

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### **Possibilities of measurement of neutron cross sections by means of photoneutron source of the LUEh-8-5 linear electron accelerator**

**S73**

*Mordovskoj, M.V.; Zuev, S.V.; Konobeevskij, E.S.; Mitsuk, V.V.; Surkova, I.V.; Skorkin, V.M. (Inst. Yadernykh Issledovaniy Rossijskoj Akademii Nauk, Moscow (RU))*

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Vozmozhnosti izmereniya nejtronnykh sechenij s ispol'zovaniem fotonejtronnogo istochnika linejnogo uskoritelya ehlektronov LUEh-8-5

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NEUTRON SOURCE FACILITIES; LINEAR ACCELERATORS; ELECTRON BEAMS;  
MEV RANGE 01-10; NEUTRON FLUX

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### **Alpha clustering in N#Not Equal To#Z nuclei**

**S73**

*Nauruzbayev, D.K. (National Lab. Astana, Nazarbayev Univ., Astana (KZ); Saint-Petersburg State Univ., Saint-Petersburg (RU)); Goldberg, V.Z.; Rogachev, G.V. (Cyclotron Inst., Texas A&M Univ., College Station, Texas (US)) (and others)*

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OXYGEN 16 REACTIONS; HELIUM; TARGETS; CLUSTER MODEL; EXCITATION  
FUNCTIONS; ELASTIC SCATTERING; DIAGRAMS; EXPERIMENTAL DATA

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### **On definition of thermal oscillation amplitude in cubic crystals on neutron diffraction data**

**S75**

*Parpiev, A.S.; Rakhmanov, S.Dzh. (Inst. Yadernoj Fiziki AN Respubliki Uzbekistan, Ulugbek, Tashkent (UZ)), e-mail: khidirov@inp.uz*

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**and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Ob opredelenii amplitudy teplovykh kolebanij atomov v kubicheskikh kristallakh po dannym difraktsii nejtronov

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MEASURING METHODS

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## **Analytical methods of determination of fission product activity in WWER-1200 reactor core and their applications**

**S21**

*Petrovskij, A.M.; Rudak, Eh.A.; Korbut, T.N. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob''edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovaniy – Sosny» Natsional'noj Akademii Nauk Belarusi, Minsk (BY)), e-mail: andy@cgm.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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FISSION PRODUCTS; RADIOACTIVITY; WWER TYPE REACTORS; REACTOR CORES;

CALCULATION METHODS

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## Proton-induced fission of $^{232}\text{Th}$ at low and intermediate energies

S73

*Pan, A.N.; Kozulin, E.M.; Itkis, I.M.; Itkis, M.G.; Knyazheva, G.N.; Gikal, K.B.; Novikov, K.V.*

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*Kvochkina, T.N.; Burtebayev, N.T.; Covalchuk, K.V. (Lab. of Fission Physics, Inst. of Nuclear Physics, Almaty (KZ))*

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### **Activity of the Nuclear Physical Data Center of RFYaTs-VNIEhF on compilation of experimental data for the international library EXFOR. Program complex EXFOR-Editor**

**S73**

*Pikulina, G.N.; Taova, S.M. (RFYaTs-VNIEhF, Sarov (RU))*

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NUCLEAR REACTIONS; E CODES; LIBRARIES

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## **Development of computerized control complexes for monitoring the physical radiation characteristics of research nuclear reactors**

**S46;S21**

*Pikulina, G.N.; Ovchinnikov, M.A.; Yukhnevich, V.A.; Koshelev, A.S.; Drozdov, Yu.M.; Raspopov, N.V.; Piskorskiy, I.M. (RFYaTs-VNIIEhF, Sarov (RU))*

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Razvitie programmno-upravlyaemykh kompleksov monitoringa fizicheskikh kharakteristik izlucheniya issledovatel'skikh yadernykh reaktorov

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NEUTRON DETECTION; COMPUTERIZED CONTROL SYSTEMS; DATA ACQUISITION  
SYSTEMS; IONIZATION CHAMBERS; COUNTING RATES; GAMMA DETECTION

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## **Photonuclear reactions on strontium and molybdenum isotopes**

**S73**

*Belyshev, S.S.; Popova, M.V. (Fizicheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. imeni*

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Fotoyadernye reaktsii na izotopakh strontsiya i molibdena

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## **Simulation of secondary processes at interaction of photons with matter**

**S61**

*Popod'ko, A.I.; Chernyaev, A.P. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear**

**spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Modelirovanie vtorichnykh protsessov pri vzaimodejstvii fotonov s veshchestvom

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**Analysis of data measured by means of neutron boron-10 detector and helium-3 counter on the INR RAS photoneutron neutron source**

**S46**

*Potashev, S.I.; Zuev, S.V.; Burmistrov, Yu.M.; Konobeevskij, E.S.; Karaevskij, S.Kh. (Inst. Yadernykh Issledovanij Rossijskoj Akademii Nauk, Moscow (RU)); Meshkov, I.V. (Fizicheskij Inst. im. P.N. Lebedeva Rossijskoj Akademii Nauk (FIAN), Moscow (RU))*

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ee primeneniye»)

Analiz dannykh, izmerennykh s pomoshch'yu detektora nejtronov na osnove bora-10 i schetchika s geliem-3 na fotonejtronnom istochnike nejtronov IYaI RAN

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RESOLUTION

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### **Excitation of isomeric states in reactions ( $\gamma,n$ ) and ( $n,2n$ ) on $^{198,200}\text{Hg}$ nuclei**

**S73**

*Palvanov, S.R.; Rustamova, X. (Dept. of Physics, National Univ. of Uzbekistan, Tashkent (UZ)), e-mail: satimbay@yandex.ru, Palvanov1960@gmail.com*

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### **Mechanisms of deuteron production in capture reactions of stopped pions**

**S73**

*Gurov, Yu.B.; Zhean-Korotkova, L.Yu.; Lapushkin, S.V.; Leonova, T.I.; Pritula, R.V.; Chernyshev, B.A.; Shchurenkova, T.D. (Natsional'nyj Issledovatel'skij Yadernyj Univ. "MIFI", Moscow (RU))*

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LIGHT NUCLEI; NUCLEAR REACTION YIELD; KNOCK-OUT REACTIONS;  
EXPERIMENT RESULTS

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### **To the problem of verification of collinear cluster tri-partition (CCT)**

**S73**

*Pyatkov, Yu.V. (National Nuclear Research Univ. MEPhI (Moscow Engineering Physics Inst.), Moscow (RU); Joint Inst. for Nuclear Research, Dubna (XJ)); Kamanin, D.V.; Alexandrov, A.A. (Joint Inst. for Nuclear Research, Dubna (XJ)) (and others)*

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### **Ab initio study of resonant and weakly-bound states of light nuclei with single-nucleon halo**

**S73**

*Rodkin, D.M. (Dukhov Research Inst. for Automatics, Moscow (RU)); Tchuvil'sky, Yu.M. (Dukhov Research Inst. for Automatics, Moscow (RU)); Skobeltsyn Inst. of Nuclear Physics,*

*Lomonosov Moscow State Univ., Moscow (RU)*

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## **The currents mechanisms of the weak leptonic processes**

**S72**

*Romanov, Yu.I. (Moscow State Univ. of Design and Technology, Moscow (RU)), e-mail: romanov.yu.i@mail.ru*

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WEAK INTERACTIONS; FLAVOR MODEL; WEINBERG-SALAM GAUGE MODEL;

THEORETICAL DATA

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## Study of isomer ratios of $^{95m,g}\text{Nb}$ and $^{133m,g}\text{Xe}$ at $^{238}\text{U}$ photofission

S73

*Zheltonozhskij, V.A.; Vishnevskij, I.N.; Davidovskaya, O.I.; Savrasov, A.N. (Inst. Yadernykh*

*Issledovaniy NAN Ukrainy, Kiev (UA)); Solodovnik, E.N.; Plyujko, V.A.; Gorbachenko, A.N.*

*(Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Issledovanie izomernykh otnoshenij  $^{95m,g}\text{Nb}$  i  $^{133m,g}\text{Xe}$  pri fotodelenii  $^{238}\text{U}$

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## **Experimental studies of $\pi$ -mesons production in U+U interactions at 192 GeV energy**

**S73**

*Berdnikov, Ya.A.; Berdnikov, A.Ya.; Zharko, S.V.; Kotov, D.O.; Radzevich, P.V. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU))*

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Ehksperimental'nye issledovaniya rozhdeniya  $\pi$ -mezonov v U+U vzaimodejstviyakh pri ehnergii 192 GeV

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BROOKHAVEN RHIC; HEAVY ION FUSION REACTIONS; PIONS NEUTRAL;  
NUCLEAR REACTION YIELD; DIFFERENTIAL CROSS SECTIONS; GEV RANGE 100-  
1000; EXPERIMENT RESULTS

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### **Investigation of double beta decay of $^{58}\text{Ni}$**

**S73**

*Brudanin, V.B.; Klimenko, A.A.; Rukhadze, N.I.; Shitov, Yu.A. (Join Inst. for Nuclear Research, Dubna (XJ)); Piquemal, F.; Warot, G. (Lab. Souterrain de Modane, Modane (FR)); Rukhadze, E.; Štekl, I. (Inst. of Experimental and Applied Physics, CTU in Prague, Prague (CZ)), e-mail: rukhadze@jinr.ru*

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NICKEL 58; DOUBLE BETA DECAY; HIGH-PURITY GE DETECTORS; EXCITED STATES; EXPERIMENTAL DATA

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### **Self-ionization of Ta atoms at electron capture of $^{181}\text{W}$**

**S73**

*Zheltonozhskij, V.A.; Savrasov, A.N.; Stril'chuk, N.V.; Khomenkov, V.P. (Inst. Yadernykh*

*Issledovaniy NAN Ukrainy, Kiev (UA))*

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Avtoionizatsiya atomov Ta pri ehlektronnom zakhvate  $^{181}\text{W}$

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PROBABILITY; GE SEMICONDUCTOR DETECTORS; ENERGY RESOLUTION;  
EXPERIMENTAL DATA

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## **Fusion reactions with light neutron-rich nuclei: pathway to synthesise of new heavy nuclei**

**S73**

*Rachkov, V.A.; Karpov, A.V.; Saiko, V.V. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ)),  
e-mail: rachkov@jinr.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

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NUCLEOSYNTHESIS; NEUTRON-RICH ISOTOPES; ACTINIDES; TARGETS; HEAVY

ION FUSION REACTIONS; EXPERIMENT PLANNING

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## **Investigation of thermal neutron flux from VVR-K reactor (INP) using the developed program-technical complex**

**S21**

*Oskomov, V.V.; Sedov, A.N.; Burtebayev, N.T.; Saduyev, N.O.; Kalikulov, O.A.; Kenzhina, I.E.; Utey, Sh.B.; Shinbulatov, S.K.; Zhumabaev, A.I.; Mukhamejanov, Ye.S. (Inst. of Experimental and Theoretical Physics of al-Farabi Kazakh National Univ., Almaty (KZ); Inst. of Nuclear Physics, Almaty (KZ))*

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fizika»; Mezhdunarodnaya konferentsiya «Yadro-2017» (67-e Soveshchanie po yadernoj

spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

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Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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WWR-K-ALMATY REACTOR; NEUTRON FLUX; THERMAL NEUTRONS; BF3 COUNTERS; POLYETHYLENES; BORON; GRAPHITE; LEAD; EXPERIMENTAL DATA

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### **Formation of inclusive spectra of (p,xp), (p,x $\alpha$ ) on $^{103}\text{Rh}$ nucleus at 30 MeV proton energy**

**S73**

*Dujsebaev, B.A.; Zholdybaev, T.K.; Sadykov, B.M.; Nassurlla, M. (Inst. Yadernoj Fiziki, Almaty (KZ)); Ismailov, K.M. (Nazarbaev Univ., Astana (KZ))*

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Formirovanie inklyuzivnykh spektrov (p,xp), (p,x $\alpha$ ) na yadre  $^{103}\text{Rh}$  pri ehnergii protonov 30 MeV

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RHODIUM 103 TARGET; PROTON REACTIONS; PROTONS; ALPHA PARTICLES; MEV RANGE 10-100; DIFFERENTIAL CROSS SECTIONS; SOLID SCINTILLATION DETECTORS; TIME-OF-FLIGHT SPECTROMETERS; TELESCOPE COUNTERS; EXPERIMENTAL DATA; THEORETICAL DATA

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## **Description of direct nuclear reactions in discrete representation**

**S73**

*Sajlaubek, D.A. (NIIYaF MGU im. D.V. Skobel'tsyna, Moscow (RU); Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ)); Rubtsova, O.A.; Kukul'in, V.I. (NIIYaF MGU im. D.V. Skobel'tsyna, Moscow (RU))*

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Opisanie pryamykh yadernykh reaktsij v diskretnom predstavlenii

p. 133-134

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2 refs., 1 fig.

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DIRECT REACTIONS; SCATTERING; S MATRIX; HAMILTONIANS; ASYMPTOTIC SOLUTIONS; SCATTERING AMPLITUDES; COULOMB FIELD; DIAGRAMS; THEORETICAL DATA

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## **Mechanism of excitation of 6.13(3<sup>-</sup>) MeV state of <sup>16</sup>O in inelastic scattering of $\alpha$ -particles and <sup>3</sup>He at energies near 50 MeV**

**S73**

*Sakuta, S.B.; Novatskij, B.G.; Stepanov, D.N. (Natsional'nyj Issledovatel'skij Tsentr*

«Kurchatovskij Inst.», Moscow (RU)) (and others)

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Mekhanizm vozbuzhdeniya sostoyaniya  $6.13(3)^{\text{MeV}}$  yadra  $^{16}\text{O}$  v neuprugom rasseyanii  $\alpha$ -chastits i  $^3\text{He}$  pri ehnergiyakh okolo 50 MeV

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OXYGEN 16 TARGET; HELIUM 3 REACTIONS; ALPHA REACTIONS; INELASTIC SCATTERING; MEV RANGE 10-100; EXCITED STATES; COUPLED CHANNEL BORN APPROXIMATION; CLUSTER MODEL; CROSS SECTIONS; DIAGRAMS; F CODES; THEORETICAL DATA

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## **Dynamics of near-barrier nucleus-nucleus collisions leading to exotic nuclei production**

**S73**

*Sajko, V.V.; Karpov, A.V. (Lab. Yadernykh Reaktsij im. G.N. Flerova, OIYaI, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Instituta yadernoj fiziki (11-ya Mezhdunarodnaya konferentsiya «Yadernaya i radiatsionnaya fizika»; Mezhdunarodnaya konferentsiya «Yadro-2017» (67-e Soveshchanie po yadernoj spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primenenie»)

Dinamika okolobar'ernykh yadro-yadernykh stolknovenij, privodyashchikh k obrazovaniyu ehkzoticheskikh yader

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DEEP INELASTIC HEAVY ION REACTIONS; QUASI-FISSION; NEUTRON-RICH ISOTOPES; LANGEVIN EQUATION; NUCLEAR REACTION KINETICS; THEORETICAL DATA

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## Near-barrier proton transfer in reactions with $^3\text{He}$

S73

*Samarin, V.V. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ); Dubna State Univ., Dubna (RU)); Penionzhkevich, Yu.E. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ); National Research Nuclear Univ. "MEPhI", Moscow (RU)); Naumenko, M.A.; Skobelev, N.K. (Flerov Lab. of Nuclear Reactions, JINR (XJ))*

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PROBABILITY; CROSS SECTIONS; TRANSFER REACTIONS; PROTONS; DIAGRAMS;  
THEORETICAL DATA

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## **Time-dependent description of incomplete fusion, cluster and neutron transfer reactions**

**S73**

*Samarin, V.V. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ); Dubna State Univ., Dubna (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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## **Algebraic model of nucleon systems at presence of superselection on isospin**

**S72**

*Kirillov, M.I.; Nikitin, A.S.; Sitdikov, A.S. (FGBOU VO KGEhU, Kazan' (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Algebraicheskaya model' nuklonnykh sistem pri nalichii pravil superotbora po izospinu  
p. 137

(RU)

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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ISOSPIN; SUPERSELECTION RULES; QUANTUM MECHANICS; GAUGE INVARIANCE; NUCLEONS; MATHEMATICAL MODELS; THEORETICAL DATA

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## **On the scattering of polarized electrons by light nuclei of half-integer spin**

**S73**

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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DIFFERENTIAL CROSS SECTIONS; RARITA-SCHWINGER THEORY; ASYMMETRY;  
LIGHT NUCLEI; SPIN; ANALYTICAL SOLUTION; THEORETICAL DATA

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## **Theory of scintillation spectrometers with several photodetectors**

**S46**

*Samedov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Teoriya stsintillyatsionnykh spektrometrov s neskol'kimi fotodetektorami

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SCINTILLATION COUNTERS; PHOTODETECTORS; ENERGY RESOLUTION; FANO

FACTOR; AMPLITUDES; DISPERSION RELATIONS; THEORETICAL DATA

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## **Study of characteristics of spontaneous fission of short-living isotopes of transfermium elements**

**S73**

*Svirikhin, A.I.; Eremin, A.V.; Popeko, A.G. (OIYaI, Dubna (XJ)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th**

**anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear**

**and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear**

**spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Izuchenie kharakteristik spontannogo deleniya korotkozhivushchikh izotopov transfermievnykh

ehlementov

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SPONTANEOUS FISSION; RUTHERFORDIUM 256; TITANIUM 50 REACTIONS; LEAD 208 TARGET; HEAVY ION FUSION REACTIONS; NOBELIUM 252; CALCIUM 48 REACTIONS; LEAD 204 TARGET; NEUTRONS; HALF-LIFE; PROBABILITY; EXPERIMENTAL DATA

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## **Search of violation effects of spatial parity in reactions of cold polarized neutrons with lighter nuclei**

**S73**

*Gledenov, Yu.M.; Sedyshev, P.V. (Lab. Nejtronnoj Fiziki im. I.M. Franka, OIYaI, Dubna (XJ)); Vesna, V.A.; Shul'gina, E.V. (Sankt-Peterburgskij Inst. Yadernoj Fiziki RAN, Gatchina (RU)); Nesvizhevskij, V.V.; Petukhov, A.K.; Soldner, T.; Tsimmer, O. (Inst. Laueh-Lanzhevena, Grenobl' (FR)); Shalan'skij, P. (Lodzinskij Univ., Lodz' (PL))*

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Poisk ehffektov narusheniya prostranstvennoj chetnosti v reaktsiyakh kholodnykh polarizovannykh nejtronov s legchajshimi yadrami

p. 140

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### **Differential cross sections of ${}^9\text{Be}(p,\alpha){}^6\text{Li}^*(3.563\text{ MeV})$ from Doppler $\gamma$ -line broadening. R-matrix analysis**

S73

*Generalov, L.N.; Selyankina, S.M.; Romanikhin, V.P. (RFYaTs-VNIIEhF, Sarov (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Differentsial'nye secheniya reaktsii  ${}^9\text{Be}(p,\alpha){}^6\text{Li}^*(3.563\text{ MeV})$  iz doplerovskogo ushireniya  $\gamma$ -linii. R-matrichnyj analiz

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PROTON REACTIONS; BERYLLIUM 9 TARGET; ALPHA PARTICLES; LITHIUM 6; DIFFERENTIAL CROSS SECTIONS; MEV RANGE 01-10; LINE BROADENING; R MATRIX; EXCITED STATES; EXPERIMENT RESULTS; THEORETICAL DATA

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### **Neutron and proton pairing in nuclei with $N=Z$**

S73

*Ishkhanov, B.S. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU); Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)); Sidorov, S.V. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Tret'yakova, T.Yu. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Sparivanie nejtronov i protonov v yadrakh s  $N=Z$

p. 142

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## **Study of radioactive decay of $^{156g}\text{Ho} \rightarrow ^{156}\text{Dy}$**

**S73**

*Izosimov, I.N.; Solnyshkin, A.A.; Khushvaktov, Zh.Kh. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ)), e-mail: soln@jinr.ru*

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Issledovanie radioaktivnogo raspada  $^{156}\text{Ho} \rightarrow ^{156}\text{Dy}$

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**Method of definition of spatial resolution of straw tubes**

**S46**

*Berdnikov, Ya.A.; Berdnikov, A.Ya.; Mosolova, E.O.; Solov'ev, V.N. (Sankt-Peterburgskij Politekhnikeskij Univ. Petra Velikogo, Sankt-Peterburg (RU))*

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Metodika opredeleniya prostranstvennogo razresheniya straw-trubok

p. 144

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DRIFT CHAMBERS; G CODES; COMPUTERIZED SIMULATION; PARTICLE TRACKS; OPTIMIZATION; SPATIAL RESOLUTION; THEORETICAL DATA

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### **Orientation characteristics of $^{24}\text{Mg}(2^+, 1.37 \text{ MeV})$ in the reaction $^{27}\text{Al}(p, \alpha_1)^{24}\text{Mg}$** **S73**

*Galanina, L.I.; Zelenskaya, N.S.; Lebedev, V.M.; Orlova, N.V.; Spasskij, A.V. (Federal'noe Gosudarstvennoe Byudzhetnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova», Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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Orientatsionnye kharakteristiki yadra  $^{24}\text{Mg}(2^+, 1.37 \text{ MeV})$  v reaktsii  $^{27}\text{Al}(p, \alpha_1)^{24}\text{Mg}$

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(RU)

2 refs., 1 fig.

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## **Multiparticle photonuclear reactions on bypassed nuclei in the range of $A=100-110$ in p-process of nucleosynthesis**

**S73;S79**

*Belyshev, S.S. (Fizicheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)); Kuznetsov, A.A.; Stopani, K.A.; Khankin, V.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D. V. Skobel'tsyna Moskovskogo gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)), e-mail: hatta@depni.sinp.msu.ru*

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Mnogochastichnye fotoyadernye reaktsii na obojdennykh yadrakh v oblasti  $A=100-110$  v p-protsesse nukleosinteza

p. 146

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TYPE II SUPERNOVAE; INTERMEDIATE MASS NUCLEI; THEORETICAL DATA

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### **Manifestation of clustering in low energy fission: new results**

**S73**

*Kamanin, D.V.; Strelalovsky, A.O.; Alexandrov, A.A. (Joint Inst. for Nuclear Research, Dubna (XJ)) (and others)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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FISSION; FISSION FRAGMENTS; FISSION FOIL DETECTORS; ISOMERIC NUCLEI;  
EXPERIMENTAL DATA

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### **Evaluated values of integral cross sections of the reaction ${}^3\text{H}(t,2n){}^4\text{He}$ in low-energy range obtained with taking into account of electron screening**

**S73**

*Taova, S.M.; Generalov, L.N.; Zherebtsov, V.A. (RFYaTs-VNIIEhF, Sarov (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear**

**spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Otsenennyye znacheniya integral'nykh sechenij reaktsii  ${}^3\text{H}(t,2n){}^4\text{He}$  v nizkoeenergetichnoj oblasti, poluchennyye s uchetom ehlektronnogo ehkranirovaniya

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HELIUM 3 TARGET; TRITON REACTIONS; HELIUM 4; DINEUTRONS; NUCLEAR SCREENING; EVALUATED DATA; INTEGRAL CROSS SECTIONS; EV RANGE 10-100

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**Nuclear reaction  ${}^{41}\text{K}(\alpha,n){}^{44\text{m}}\text{Sc}$  and isomeric cross section ratios**

**S73**

*Chuvil'skaya, T.V. (Skobel'syn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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### **Theoretical study of seven-nucleon system ${}^6\text{Li} + p$ by means of algebraic version of resonating group**

**S73**

*Solov'ev, A.S. (Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki imeni N.L. Dukhova, Moscow (RU); Tikhookeanskij Gosudarstvennyj Univ., Khabarovsk (RU)), e-mail: alexander.solovyev@mail.ru; Igashov, S.Yu. (Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki imeni N.L. Dukhova, Moscow (RU))*

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Teoreticheskoe issledovanie seminuklonnoj sistemy  ${}^6\text{Li} + p$  s ispol'zovaniem algebraicheskoy versii modeli rezoniruyushchikh grupp

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LITHIUM 6 TARGET; PROTON REACTIONS; HELIUM 3; ALPHA PARTICLES;  
RESONATING-GROUP METHOD; CROSS SECTIONS; ASTROPHYSICS; THEORETICAL  
DATA

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## **Investigation of angular correlations in experiments with cosmic particle interactions on the «ADRON-44» installation**

**S46**

*Burtebaev, N. (Inst. Yadernoj Fiziki, Almaty (KZ)); Novolodskaya, O.A.; Sadykov, T.Kh.; Taut, E.M. (Fiziko-Tekhnicheskij Inst., Almaty (KZ))*

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Izuchenie uglovykh korrelyatsij v ehksperimentakh s vzaimodejstviem kosmicheskikh chastits na ustanovke «ADRON-44»

p. 148-149

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### **Search of rare channels of reaction with proton evaporation**

S73

*Tezekbaeva, M.S.; Eremin, A.V. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); Gosudarstvennyj Univ. «Dubna», Dubna (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Poisk redkikh kanalov reaktsii s ispareniem protonov

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### **Resonance production in antiproton-proton annihilation reactions and proton and antiproton charge exchange reactions at momentum of 22.4 GeV/c**

S73

*Boos, Eh.G.; Temiraliev, T.; Izbasarov, M.; Samojlov, V.V.; Tursunov, R.A. (Fiziko-Tekhnicheskij Inst., Almaty (KZ)), e-mail: temturt@mail.ru*

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Образование резонансов в реакциях антипротон-протонной аннигиляции и в реакциях пerezaryadki protonov i antiprotonov pri impul'se 22.4 GeV/s

p. 150

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### **Analysis of the one-nucleon transfer reactions on $^{16}\text{O}$ nucleus and ANC for mirror configurations $^{17}\text{F} \rightarrow ^{16}\text{O} + p$ and $^{17}\text{O} \rightarrow ^{16}\text{O} + n$**

**S73**

*Tojiboyev, O.R.; Artemov, S.V.; Kayumov, M.A.; Karahodzhaev, A.A.; Juraev, O.Sh.; Ergashev, F.Kh. (Inst. of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent (UZ)); Burtebayev, N. (Inst. of Nuclear Physics, Almaty (KZ))*

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FACTORS; ANGULAR CORRELATION; ONE-NUCLEON TRANSFER REACTIONS;

GROUND STATES; ISOBARIC NUCLEI; THEORETICAL DATA

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## **Angular correlations of secondary charged particles in antiproton-proton annihilation reactions at 32 GeV/c**

**S73**

*Boos, Eh.G.; Temiraliyev, T.; Izbasarov, M.; Zhautykov, B.O.; Samojlov, V.V.; Pokrovskij, N.S.;*

*Tursunov, R.A. (Fiziko-Tekhnicheskij Inst., Almaty (KZ)), e-mail: temturt@mail.ru*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

Uglovyje korrelyatsii vtorichnykh zaryazhennykh chastits v reaktsiyakh antiproton–protonnoj

annigilyatsii pri 32 GeV/s

p. 151

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ANNIHILATION; PROTON-ANTIPROTON INTERACTIONS; MULTIPLICITY; GEV RANGE 10-100; ANGULAR CORRELATION; EXPERIMENT RESULTS; THEORETICAL DATA

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## **Effect of wriggling oscillations of aligned nuclei on angular distributions of their low-energy fission fragments**

**S73**

*Titova, L.V.; Kadenskij, S.G. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: titova\_lv@phys.vsu.ru; Bunakov, V.E. (Peterburgskij Inst. Yadernoj Fiziki, Gatchina (RU))*

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Vliyanie wriggling-kolebanij vystroennykh yader na uglovyje raspredeleniya fragmentov ikh nizkoehnergeticheskogo deleniya

p. 152

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6 refs.

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**P-odd asymmetries in angular distributions of fragments of low-energy nuclei fission by polarized neutrons with taking into account of wriggling oscillations of fissionable nucleus**

**S73**

*Kadmenskij, S.G.; Titova, L.V.; Kostryukov, P.V. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)), e-mail: kadmensky@phys.vsu.ru*

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P-nechetnye asimmetrii v uglovykh raspredeleniyakh fragmentov nizkoehnergeticheskogo deleniya yader polarizovannymi nejtronami s uchetom wriggling-kolebanij delyashchegosya yadra

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## **Algebraic method for describing the elastic scattering processes with high-spin states**

**S73**

*Burkova, N.A. (Al-Farabi Kazakh National Univ., Almaty (KZ)); Tkachenko, A.S.; Beisenov, B.U.; Mukaeva, A.R. (Al-Farabi Kazakh National Univ., Almaty (KZ)); V.G. Fesenkov Astrophysical Inst., Almaty (KZ))*

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ELASTIC SCATTERING; HIGH SPIN STATES; DIFFERENTIAL CROSS SECTIONS; L-S COUPLING; ANALYTICAL SOLUTION; THEORETICAL DATA

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## **Astrophysical S-factor of radiative capture ${}^3\text{He}(\alpha,\gamma){}^7\text{Be}$ and ${}^3\text{H}(\alpha,\gamma){}^7\text{Li}$ in two-particle potential model**

**S73**

*Tursunov, Eh.M.; Turakulov, S.A.; Kudratov, Kh.N. (Inst. Yadernoj Fiziki AN RUz, Tashkent (UZ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear**

**spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Astrofizicheskiy S-faktor radiatsionnogo zakhvata  ${}^3\text{He}(\alpha,\gamma){}^7\text{Be}$  i  ${}^3\text{H}(\alpha,\gamma){}^7\text{Li}$  v dvukhchastichnoj potentsial'noj modeli

p. 155-156

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**Elastic  $d^{12}\text{C}$  scattering within the combined Glauber and optical model**

**S73**

*Ibraeva, E.T. (Inst. for Nuclear Research Republic of Kazakhstan, Almaty (KZ)); Uzikov, Yu.N. (Joint Inst. for Nuclear Researches, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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CARBON 12 TARGET; DEUTERON REACTIONS; ELASTIC SCATTERING; GLAUBER THEORY; OPTICAL MODELS; MEV RANGE 100-1000; DIFFERENTIAL CROSS SECTIONS; ELECTRIC DIPOLE MOMENTS; COULOMB FIELD; THEORETICAL DATA

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## **The impact of the electron shell upon the alpha decay of ionized atom**

**S74**

*Igashov, S.Yu. (Dukhov Research Inst. for Automatics, Moscow (RU)); Tchuvil'sky, Yu.M. (Dukhov Research Inst. for Automatics, Moscow (RU); Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU))*

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**Calculation of neutron physical characteristics of possible fuel loading at combination MOX and REMIX technologies in thermal neutron-based reactors on example of WWER-1200**

S21

*Alejnikov, A.N.; Tolstykh, V.S. (FGBOU VO «Voronezhskij GosUniv.», Voronezh (RU)), e-mail: defender136@mail.ru*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Raschet nejtronno-fizicheskikh kharakteristik vozmozhnoj toplivnoj zagruzki pri sovmeshchenii MOX i REMIX-tekhnologij v reaktorakh na teplovykh nejtronakh na primere VVEhR-1200

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2 refs.

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WWER TYPE REACTORS; HOMOGENIZATION METHODS; NEUTRON FLUX; MIXED OXIDE FUELS; CLOSED FUEL CYCLE; REPROCESSING; URANIUM 235; PLUTONIUM 239; THEORETICAL DATA

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**Structure of light decaying nuclei in the framework of stochastic variation model**  
S73

*Urazbekov, B.A.; Denikin, A.S. (Lab. Yadernykh Reaktsij im. Flerova, OIYaI, Dubna (XJ); Gosudarstvennyj Univ. «Dubna», Dubna (RU))*

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Struktura legkikh nestabil'nykh yader v ramkakh stokhasticheskoy variatsionnoj modeli  
p. 158

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**Measurement of angular distributions of gamma-quanta in inelastic 14 MeV neutron scattering on carbon and oxygen nuclei**

S73

*Fedorov, N.A. (Ob'edinennyj Inst. Yadernykh Issledovanij (OIYaI), Dubna (XJ); Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Tret'yakova, T.Yu. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Nauchno-Issledovatel'skij Inst.*

*Yadernoj Fiziki im. D.V. Skobel'tsyna (NIIYaF MGU), Moscow (RU); Kopach, Yu.N. (Ob''edinennyj Inst. Yadernykh Issledovanij (OIYaI), Dubna (XJ)) (and others)*

TANGRA Collaboration

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Izmerenie uglovykh raspredelenij gamma-kvantov v reaktsiyakh neuprugogo rasseyaniya nejtronov s ehnergiej 14 MeV na yadrakh ugleroda i kisloroda

p. 159

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## **Estimation of reactivity of fast thermal subcritical assembly «Yalina-Buster» without fuel in fast zone**

**S21**

*Fokov Yu.G., Rutkovskaya K.K., Burnos V.V., Edchik I.A. (Gosudarstvennoe Nauchnoe Uchrezhdenie «Ob''edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij - Sosny» NAN Belarusi, Minsk (BY))*

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**its application»)**

Almaty (KZ)

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Otsenka reaktivnosti bystro-teplovoy podkriticheskoj sborki «Yalina-Buster» bez topliva v bystroj zone

p. 159-160

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Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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YALINA FACILITY; CRITICALITY; REACTOR KINETICS; DELAYED NEUTRONS; REACTIVITY; MIXED OXIDE FUELS; THEORETICAL DATA

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**Production of heavy helium isotope  $^5\text{He}$  at stopped pion capture by  $^{10,11}\text{B}$  nuclei**  
**S73**

*Chernyshev, B.A.; Zhean-Korotkova, L.Yu.; Gurov, Yu.B.; Karpukhin, V.S.; Lapushkin, S.V.; Leonova, T.I.; Pritula, R.V.; Sandukovskij, V.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), e-mail: chernyshev@mephi.ru*

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Obrazovanie tyazhelogo izotopa geliya  $^5\text{He}$  pri pogloshchenii ostanovivshikhsya pionov yadrami  $^{10,11}\text{B}$

p. 160

(RU)

3 refs., 1 fig.

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PION MINUS REACTIONS; BORON 10 TARGET; BORON 11 TARGET; HELIUM 5; TRITONS; DEUTERONS; MISSING-MASS SPECTRA; MEV RANGE 10-100; GROUND STATES; EXCITED STATES; LEVEL WIDTHS; EXPERIMENTAL DATA

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## **Excitation of $^{180m}\text{Ta}$ by positrons with boundary energy of 0,65 MeV**

**S73**

*Zheltonozhskaya, M.V.; Lykova, E.N.; Chernyaev, A.P. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)); Zheltonozhskij, V.A. (Inst. Yadernykh Issledovanij NAN Ukrainy, Kiev (UA))*

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Vozbuzhdenie  $^{180m}\text{Ta}$  pozitronami s granichnoj ehnergiej 0,65 MeV

p. 161

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POSITRON REACTIONS; TANTALUM 180 TARGET; ANNIHILATION; EV RANGE 100-1000; EXCITATION; CROSS SECTIONS; EXPERIMENTAL DATA

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## **Possibility of fast neutron detection with position sensitive pixel detector Timepix S46**

*Chuprakov, I.; Berikov, D.; Zolotaryova, V. (Joint Inst. for Nuclear Researches, Dubna (XJ); The Inst. of Nuclear Physics, Almaty (KZ)); Ahmadov, G. (Joint Inst. for Nuclear Researches, Dubna (XJ); Azerbaijan National Academy of Sciences - AD and İRP, Baku (AZ); National Nuclear Research Centre, Baku (AZ)); Gledenov, Yu.M.; Kopatch, Y.; Sansarbayar, E. (Joint Inst. for Nuclear Researches, Dubna (XJ)); Nuruyev, S. (Joint Inst. for Nuclear Researches, Dubna (XJ); Azerbaijan National Academy of Sciences - AD and İRP, Baku (AZ)); Akbarov, R. (Joint Inst. for Nuclear Researches, Dubna (XJ); National Nuclear Research Centre, Baku (AZ))*

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POSITION SENSITIVE DETECTORS; NEUTRON DETECTION; FAST NEUTRONS;  
PLASTIC SCINTILLATION DETECTORS; SCINTILLATOR-PHOTODIODE DETECTORS;  
PLASTIC SCINTILLATORS; SI SEMICONDUCTOR DETECTORS; PERFORMANCE

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## **Search of new inter-nucleon interactions in neutron scattering on nucleus**

**S73**

*Voronin, V.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU); NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU); Sankt-Peterburgskij Politekhničeskij Univ. Petra Velikogo, Sankt-Peterburg (RU)); Kuznetsov, I.A. (NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU)); Shapiro, D.D. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU); NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU))*

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Poisk novykh mezhnuklonnykh vzaimodejstvij v rasseyanii nejtronov na yadre

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SCATTERING AMPLITUDES; SILICON; TARGETS; DIAGRAMS; COUPLING  
CONSTANTS; EXPERIMENT PLANNING

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## **Simulation of nuclear physical experiments on charged particle beams**

**S73**

*Ehrgashev, F.Kh.; Artemov, S.V.; Tozhiboev, O.R.; Igamov, S.B. (Inst. Yadernoj Fiziki,*

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NITROGEN 13 REACTIONS; DEUTERIUM TARGET; NITROGEN 13; OXYGEN 14; NEUTRONS; DEUTERIUM; COMPUTERIZED SIMULATION; W CODES; TRAJECTORIES; ANGULAR DISTRIBUTION; POSITION SENSITIVE DETECTORS; DIAGRAMS; THEORETICAL DATA; MEV RANGE 10-100

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## **Fission rate of excited nuclei depending on the saddle-to-scission distance and the friction strength**

**S73**

*Chushnyakova, M.V. (Physics Dept., Omsk State Technical Univ., Omsk (RU); Inst. of Physics and Technology, Tomsk Polytechnic Univ., Tomsk (RU)); Gontchar, I.I. (Physics Dept., Omsk State Technical Univ., Omsk (RU); Physics and Chemistry Dept., Omsk State Transport Univ., Omsk (RU))*

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SCISSION-POINT MODEL; FISSION; REACTION KINETICS; EXCITED STATES; SADDLE-POINT METHOD; STRENGTH FUNCTIONS; ONE-DIMENSIONAL CALCULATIONS; THEORETICAL DATA

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## **A fresh look at treatment of radiative capture in nuclear reactions: applications to the $\alpha$ - $\alpha$ Bremsstrahlung**

**S73**

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ALPHA REACTIONS; HELIUM 4 TARGET; GAMMA RADIATION;  
BREMSSTRAHLUNG; CAPTURE; CLUSTER MODEL; COULOMB FIELD; S MATRIX;  
SCATTERING AMPLITUDES; THEORETICAL DATA

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### **Isotope analysis of hydrogen-helium mixture; ion optical high-resolution system S37**

*Gall', L.N. (Inst. Analiticheskogo Priborostroeniya RAN, Sankt-Peterburg (RU)); Gall', N.R. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)); Nazarenko, L.M.; Yakushev, E.M. (Inst. Yadernoj Fiziki, Almaty (KZ)); Semenov, A.A. (VNII NM im. A.A. Bochvara, Moscow (RU))*

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Izotopnyj analiz vodorodno-gelievoy smesi; ionno-opticheskaya sistema vysokogo razresheniya p. 165

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STATIC MASS SPECTROMETERS; ISOTOPE RATIO; HYDROGEN; HELIUM;  
MAGNETIC SPECTROMETERS; FOCUSING; MASS RESOLUTION; BINARY MIXTURES

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## **Asymptotic theory of the peripheral sub-barrier one particle transfer reaction for nuclear astrophysics**

**S73**

*Tursunmakhatov, K.I.; Yarmukhamedov, R. (Inst. of Nuclear Physics, Tashkent (UZ))*

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DIFFERENTIAL CROSS SECTIONS; KEV RANGE 100-1000; ANGULAR DISTRIBUTION;  
FLUORINE 19 TARGET; PROTON REACTIONS; OXYGEN 16; ALPHA PARTICLES;  
ASYMPTOTIC SOLUTIONS; THEORETICAL DATA

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## **Reactor experiments on study of luminescence of two-component gas media**

## **excited by products of ${}^6\text{Li}(n,\alpha){}^3\text{H}$ nuclear reaction**

**S75**

*Gordienko, Yu.N.; Samarkhanov, K.K.; Ponkratov, Yu.V.; Kul'sartov, T.V.; Barsukov, N.I.; Zaurbekova, Zh.A.; Tulubaev, E.Yu. (Inst. Atomnoj Ehnergii Natsional'nogo Yadernogo Tsentra Respubliki Kazakhstan, Kurchatov (KZ)); Batyrbekov, Eh.G. (Natsional'nyj Yadernyj Tsentr Respubliki Kazakhstan, Kurchatov (KZ)); Khasenov, M.U. (Chastnoe Uchrezhdenie "National Lab. Astana", Astana (KZ))*

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Reaktornye ehksperimenty po issledovaniyu lyuminesntsentsii dvukhkomponentnykh gazovykh sred, vzbuzhdaemykh produktami yadernoj reaktsii  ${}^6\text{Li}(n,\alpha){}^3\text{H}$

p. 167

(RU)

2 refs.

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LUMINESCENCE; BINARY MIXTURES; HELIUM; NEON; LASERS; VISIBLE RADIATION; SPECTRA

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## **Angular distributions and anisotropy of fission fragments for heavy nuclei induced by intermediate energy neutrons (1-200 MeV)**

**S73**

*Vorobyev, A.S.; Gagarski, A.M.; Shcherbakov, O.A.; Vaishnene, L.A. (B.P. Konstantinov Petersburg Nuclear Physics Inst. of National Research Centre "Kurchatov Inst.", Gatchina (RU)); Barabanov, A.L. (NRC "Kurchatov Inst.", Moscow (RU); Moscow Inst. of Physics and Technology, Dolgoprudny, Moscow Region (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th**

**anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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## **Asymptotics of three-body bound state radial wave functions of halo nuclei involving two charged particles**

**S73**

*Yarmukhamedov, R. (Inst. of Nuclear Physics, Tashkent (UZ))*

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TRANSFER REACTIONS; ALPHA PARTICLES; LITHIUM 6; HELIUM 3 TARGET;

PROTONS; THEORETICAL DATA; COMPARATIVE EVALUATIONS; EXPERIMENT

RESULTS

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## **Electromagnetic reactions with the deuteron in the Bethe-Salpeter approach** **S73**

*Bondarenko, S.; Burov, V. (Bogoliubov Lab. of Theoretical Physics, Joint Inst. for Nuclear Research, Dubna (XJ))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primenenie»)

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### **Investigation of exposure to coherent electromagnetic radiation on radioactive decay of $^{152}\text{Eu}$ and $^{239}\text{Np}$**

**S73**

*Barmina, E.V.; Simakin, A.V.; Shcherbakov, I.A. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)); Smirnov, A.A. (Inst. Fiziko-Tekhnicheskikh Problem, Dubna (RU)); Sedykh, S.N.; Kaminskij, A.K.; Stegajlov, V.I.; Tyutyunnikov, S.I. (Ob'edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)); Shafeev, G.A. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU))*

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Issledovanie vozdejstviya kogerentnogo ehlektromagnitnogo izlucheniya na radioaktivnyj raspad  $^{152}\text{Eu}$  i  $^{239}\text{Np}$

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EUROPIUM 152; NEPTUNIUM 239; MICROWAVE RADIATION; LASER RADIATION;  
HALF-LIFE; NUCLEAR DECAY; DIAGRAMS; EXPERIMENTAL DATA

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### **Calculation of odd-odd nuclei Ho (Z=67) with A=156, 158, 160, 162, 164**

**S73**

*Vaganov, Yu.A.; Gons, Z.; Kalinnikov, V.G.; Sushkov, A.A.; Stegajlov, V.I.; Yushkevich, Yu.V. (Ob'edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))*

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Raspad nechetno-nechetnykh yader Ho (Z=67) s a=156, 158, 160, 162, 164

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### **Investigation of nuclear decay by means of multi-detector coincidence «Dodekaedr»-type spectrometer**

**S46**

*Chaloun, P.; Adam, I.; Stegajlov, V.I.; Tyutyunnikov, S.I. (Ob'edinennyj Inst. Yadernykh*

*Issledovaniy, Dubna (XJ)*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Issledovanie raspada yader s pomoshch'yu mnogodetektornogo spektrometra sovpadenij tipa «Dodekaedr»

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**Investigation of decay of nuclei producing at irradiation of  $^{237}\text{Np}$ ,  $^{239}\text{Pu}$  and  $^{241}\text{Am}$  in neutron field generated by JINR phasotron «KVINTA» installation**  
**S73**

*Tyutyunnikov, S.I.; Stegajlov, V.I.; Kilim, S.; Shuta, M.; Smirnov, A.I.; Dalkhazhav, O.; Kryachko, I.A.; Khushvaktov, Zh.N. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ)), e-mail: tsi210647@yandex.ru, stegajlov2013@yandex.ru*

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Issledovanie raspada yader, obrazuyushchikhsya pri obluchenii mishenej  $^{237}\text{Np}$ ,  $^{239}\text{Pu}$  i  $^{241}\text{Am}$  v pole nejtronov ustanovki «KVINTA» fazotrona OIYaI

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NEPTUNIUM 237 TARGET; PLUTONIUM 239 TARGET; AMERICIUM 241 TARGET;

PROTON REACTIONS; MEV RANGE 100-1000; FISSION; CAPTURE; CROSS SECTIONS;

NEUTRON REACTIONS; GAMMA SPECTRA; HIGH-PURITY GE DETECTORS;

EXPERIMENTAL DATA

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## **Detailed study of N-N correlations in thermal fission of $^{233}\text{U}$ , $^{235}\text{U}$ and $^{239}\text{Pu}$**

**S73**

*Guseva, I.S.; Gagarski, A.M.; Sokolov, V.E.; Petrov, G.A.; Zavarukhina, T.A. (NRC "Kurchatov Inst.", B.P. Konstantinov Petersburg Nuclear Physics Inst., Gatchina (RU))*

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THERMAL FISSION; URANIUM 233 TARGET; URANIUM 235 TARGET; PLUTONIUM 239 TARGET; ANGULAR CORRELATION; NEUTRONS; SCISSION-POINT MODEL; THEORETICAL DATA

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## **Detectors for complex of non-contact diagnostics and control of fast processes in transmutation electronuclear installation**

**S46**

*Maltsev, A.; Maltseva, M. (JINR, Dubna (XJ); TENZOR, Dubna (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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OPTOELECTRONIC DEVICES; ACCELERATOR-DRIVEN TRANSMUTATION;  
PERFORMANCE

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## **Current technologies and measuring instrumentation of nuclear engineering**

**S46**

*Kozhemyakin, V.A. (Nauchno-Proizvodstvennoe Unitarnoe Predpriyatie «ATOMTEKh», Minsk (BY))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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Sovremennyye tekhnologii i ustrojstva dlya izmerenij yadernogo priborostroeniya

p. 174

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RADIATION DETECTORS; DOSEMETERS; RADIATION DETECTION; PULSE  
TECHNIQUES; SPECTROMETERS; METROLOGY; RADIATION MONITORS

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## **Angular and energy distributions of fission neutrons for U-233, U-235, Pu-239 and Cf-252**

**S73**

*Vorobyev, A.S.; Shcherbakov, O.A.; Gagarski, A.M.; Val'ski, G.V.; Petrov, G.A. (B.P. Konstantinov Petersburg Nuclear Physics Inst. of National Research Centre "Kurchatov Inst.",*

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URANIUM 233 TARGET; URANIUM 235 TARGET; PLUTONIUM 239 TARGET; CALIFORNIUM 252 TARGET; THERMAL FISSION; PROMPT NEUTRONS; FISSION SPECTRA; ANGULAR DISTRIBUTION; EXPERIMENTAL DATA

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## **Neutron methods of study of condensed matter state: neutron radiography and tomography**

**S75**

*Mukhametuly, B. (Kazakhskij Natsional'nyj Univ. imeni Al'-Farabi, Almaty (KZ); Lab. Nejtironnoj Fiziki imeni I.M. Franka, Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

Nejtronnnye metody issledovaniya kondensirovannogo sostoyaniya veshchestva: nejtronnaya radiografiya i tomografiya

p. 175

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CRYSTAL STRUCTURE; NEUTRON RADIOGRAPHY; TOMOGRAPHY; MAGNETIC MOMENTS

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## **Search of structures in distributions of narrow forward-cone particles of extensive atmospheric showers of high-energy cosmic rays**

**S73**

*Argynova, A.Kh.; Zhukov, V.V.; Karataeva, A.A.; Kvochkina, T.N.; Loktionov, A.A.; Piskal', V.V.; Sadykov, T.Kh.; Stepanov, A. (Fiziko-Tekhnicheskij Inst., Almaty (KZ); Fizicheskiy Inst. RAN – Otdelenie TShVSKL, Almaty (KZ); Inst. Yadernoj Fiziki, Almaty (KZ))*

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Poisk struktur v raspredeleniyakh chastits uzkoogo perednego konusa shirokikh atmosferykh livnej kosmicheskikh luchej vysokikh ehnergij

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EXTENSIVE AIR SHOWERS; MULTIPLICITY; CORRELATIONS; SHOWER COUNTERS; COSMIC RAY DETECTION

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## **Gamma-radiation fields with energies up to 10 MeV for metrological assurance of dosimetry of radiation safety devices**

**S46**

*Komar, D.I.; Lukashevich, R.V.; Guzov, V.D.; Kozhemyakin, V.A. (Nauchno-Proizvodstvennoe Unitarnoe Predpriyatie «ATOMTEKH», Minsk (BY)); Kuten', S.A. (Inst. Yadernykh Problem Belorusskogo Gosudarstvennogo Univ., Minsk (BY))*

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GAMMA DOSIMETRY; CONDENSER IONIZATION CHAMBERS; CALIBRATION;  
METROLOGY; KERMA; MEV RANGE 01-10; GAMMA RADIATION

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## **Self-consistent calculations of E1-transitions between single-photon states in semimagic nuclei**

**S73**

*Vojtenkov, D.A. (GNTs RF Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)); Kamerdzhev, S.P. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Tolokonnikov, S.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Moskovskij Fiziko-Tekhnicheskij Inst., Dolgoprudnyj (RU)); Shitov, M.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU))*

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PROBABILITY; DENSITY FUNCTIONAL METHOD; ELECTRON CORRELATION;  
THEORETICAL DATA

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## **Radiation-stimulated modifications of Al<sub>2</sub>O<sub>3</sub> surfaces caused by high-energy ion irradiation**

**S75;S36**

*Skuratov, V. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)); Akilbekov, A.; Dauletbekova, A.; Aralbaeva, G. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ)); Zdorovets, M.V. (Inst. Yadernoj Fiziki, Almaty (KZ); Ural'skij Federal'nyj Univ., Ekaterinburg (RU))*

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Radiatsionno-stimulirovannye izmeneniya poverkhnosti Al<sub>2</sub>O<sub>3</sub> i TiO<sub>2</sub>, vyzvannye oblucheniem vysokoenergeticheskimi ionami

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TITANIUM OXIDES; ALUMINIUM OXIDES; ION BEAMS; BISMUTH IONS; XENON IONS; MEV RANGE 100-1000; MONOCRYSTALS; NANOSTRUCTURES; CRYSTAL DEFECTS; ATOMIC FORCE MICROSCOPY; SCANNING ELECTRON MICROSCOPY; ION MICROSCOPY; DIMENSIONS; ENERGY DEPENDENCE; SURFACE PROPERTIES; PHYSICAL RADIATION EFFECTS; EXPERIMENTAL DATA

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## **Synthesis of MgF<sub>2</sub> tungsten-activated ceramics by means of power electron beams: luminescent properties**

**S36**

*Lisitsyn, V.M. (Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ., Tomsk (RU));*

*Karipbaev, Zh.T.; Musakhanov, D.; Dauletbekova, A.K.; Akilbekov, A.T. (Evrazijskij Natsional'nyj Univ. im. L.N. Gumileva, Astana (KZ)); Kozlovskij, A.L. (AF IYaF, Astana (KZ)); Lisitsyna, L.A.; Markhabaeva, A.A. (Tomskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ., Tomsk (RU))*

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Sintez moshchnymi ehlektronnymi puchkami keramik  $MgF_2$ , aktivirovannykh vol'framom: lyuminestsentnye svoystva

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## **Effect of neutron irradiation and temperature on physical mechanical properties of structural steels 316NG and G-91**

**S36**

*Dikov, A.S.; Kislitsin, S.B.; Maksimkin, O.P. (Inst. Yadernoj Fiziki MEh RK, Almaty (KZ); Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI» – NIYaU MIFI, Moscow (RU)); Merezhko, M.S.; Rofman, O.V.; Turubarova, L.G.; Sil'nyagina, N.S. (Inst. Yadernoj Fiziki MEh RK, Almaty (KZ)); Chernov, I.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI» – NIYaU MIFI, Moscow (RU))*

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Vliyanie nejtronnogo oblucheniya i temperatury ispytaniy na fiziko-mekhanicheskie svoystva konstruktsionnykh stalej 316NG i G-91

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## **Development of solder alloys for heat-resistant joints in strained constructions S36**

*Kalin, B.A.; Sevryukov, O.N.; Suchkov, A.N.; Ivannikov, A.A.; Fedotov, I.V.; Bachurina, D.M.; Penyaz', M.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI» (NIYaU MIFI), Moscow (RU))*

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Razrabotka splavov-pripoev dlya sozdaniya termostojkikh soedinenij v ehnergonapryazhennykh konstruktsiyakh

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ALUMINIUM BASE ALLOYS; TITANIUM BASE ALLOYS; ZIRCONIUM BASE ALLOYS;

AMORPHOUS STATE; CORROSION RESISTANCE

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## **Results of reactor experiments on irradiation of lead-lithium eutectic $\text{Li}_{17}\text{Pb}_{83}$**

**S70**

Zaurbekova, Zh.A. (Inst. Atomnoj Ehnergii, Natsional'nyj Yadernyj Tsentr RK, Kurchatov (KZ));

Sitnikov, A.A. (Altajskij Gosudarstvennyj Tekhnicheskij Univ. im. I.I. Polzunova, Barnaul (RU))

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ee primenenie»)

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BREEDING BLANKETS; BINARY ALLOY SYSTEMS; LITHIUM ALLOYS; LEAD ALLOYS; TRITIUM RECOVERY; THERMONUCLEAR REACTORS; EXPERIMENT RESULTS; THERMONUCLEAR REACTOR MATERIALS; HELIUM

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## **Precise structural introscopy of crystal structure**

**S75**

*Lasitsa, M.V.; Semenikhin, S.Yu.; Voronin, V.V.; Fedorov, V.V. (NITs KI FGBU «Peterburgskij Inst. Yadernoj Fiziki im. B.P. Konstantinova», Gatchina (RU); Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU)); Kuznetsov, I.A. (NITs KI FGBU «Peterburgskij Inst. Yadernoj Fiziki im. B.P. Konstantinova», Gatchina (RU))*

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p. 220

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### **Nuclear microprobe for investigation of sintered powder beryllium**

S36

*Buzoverya, M.Eh.; Karpov, I.A.; Gorodnov, A.A.; Arkhipov, A.Yu.; Valekzhanina, E.I.; Kirejcheva, V.I. (RFYaTs-VNIIEhF, Sarov (RU))*

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### **Return deformation in film polytetrafluoroethylene irradiated by electrons**

S36

*Voronova, N.A.; Niyazov, M.N.; Tlebaev, K.B. (Kazakhskij Natsional'nyj Pedagogicheskij Univ. im. Abaya, Almaty (KZ)); Kupchishin, A.I. (Kazakhskij Natsional'nyj Pedagogicheskij Univ. im. Abaya, Almaty (KZ)); Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ)); Lisitsyn, V.M. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))*

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## **Localization of deformation under exposure to shock explosion wave**

**S75**

*Oleshko, V.I. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Plotnikov, S.V.; Turlybekuly, A. (Vostochno-Kazakhstanskij Gosudarstvennyj Tekhnicheskij Univ. imeni D. Serikbaeva, Ust'-Kamenogorsk (KZ)), e-mail: aturlybekuly@gmail.com*

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HARDNESS; C CODES; COMPUTERIZED SIMULATION; THEORETICAL DATA;

IMPACT STRENGTH; DEFORMATION; MICROSTRUCTURE

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## **Influence of residual stresses on the thermal strength of NRE fuel elements**

**S21**

*Deryavko, I.I. (Inst. of Atomic Energy NNC RK, Kurchatov (KZ)), e-mail: ilya@nnc.kz; Lanin,*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

ee primeneniye»)

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## **Effect of power plasma jets on wall and materials of thermonuclear devices**

**S70**

*Dobrynina, A.O.; Ryzhkov, S.V. (Federal'noe Gosudarstvennoe Byudzhethoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Tekhnicheskij Univ. imeni N.Eh. Baumana (Natsional'nyj Issledovatel'skij Univ.)» (MGTU im. N.Eh. Baumana), Moscow (RU)), e-mail: svryzhkov@bmstu.ru; Kuzenov, V.V. (Federal'noe Gosudarstvennoe Byudzhethoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Moskovskij Gosudarstvennyj Tekhnicheskij Univ. imeni N.Eh. Baumana (Natsional'nyj Issledovatel'skij Univ.)» (MGTU im. N.Eh. Baumana), Moscow (RU); Federal'noe Gosudarstvennoe Unitarnoe Predpriyatie «Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki im. N.L. Dukhova» (FGUP VNIIA), Moscow (RU); Federal'noe Gosudarstvennoe Byudzhethoe Uchrezhdenie Nauki «Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo Rossijskoj Akademii Nauk» (IPMekh RAN), Moscow (RU)), e-mail: vik.kuzenov@gmail.com, kuzenov@ipmnet.ru*

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THERMONUCLEAR REACTOR MATERIALS; PLASMA JETS; INERTIAL  
CONFINEMENT; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION;  
THEORETICAL DATA

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## **Pore formation in ion-irradiated silicon**

**S36**

*Kupchishin, A.I. (Kazakhskij Natsional'nyj Univ. im. Al'-Farabi, Almaty (KZ); Kazakhskij Natsional'nyj Pedagogicheskij Univ. imeni Abaya, Almaty (KZ)); Komarov, F.F. (Belorusskij Gosudarstvennyj Univ. im. Sechenova, Minsk (BY)); Lisitsyn, V.M. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)); Taipova, B.G. (Kazakhskij Natsional'nyj Pedagogicheskij Univ. imeni Abaya, Almaty (KZ))*

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SILICON; ION IMPLANTATION; PORE STRUCTURE; NANOSTRUCTURES; BISMUTH IONS; SIZE; ETCHING; SCANNING ELECTRON MICROSCOPY

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## **Ab initio simulation of properties of nitride compounds $Pu_xU_yN_z$**

**S75**

*Lukoyanov, A.V. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Inst. Fiziki Metallov imeni M.N. Mikheeva Ural'skogo Otdeleniya RAN, Ekaterinburg (RU))*

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Pervoprintsipnoe modelirovanie svojstv nitridnykh soedinenij  $Pu_xU_yN_z$

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## **Ultrafast laser optical studies of near-surface thermal conductivity in insulator irradiated by swift and heavy ions**

**S36**

*Utegulov, Z.N.; Alimzhanov, D.; Muminov, B.; Abdullaev, A.; Koshkinbayeva, A.; Yakupov, T.; Tuigynbek, A. (Dept. of Physics, School of Science and Technology, Nazarbayev Univ., Astana(KZ)); Skuratov, V.A. (Flerov Lab. of Nuclear Reactions, Joint Inst. for Nuclear Research, Dubna (XJ); National Research Nuclear Univ. MEPhI, Moscow (RU); Dubna State Univ., Dubna (RU))*

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## **Results of determination of radionuclide and elemental composition of moss samples of Almaty district**

**S54**

*Amir, Zh.A.; Kabirova, G.M.; Lennik, S.G.; Liventsova, A.S.; Silachev, I.Yu.; Solodukhin, V.P. (Inst. Yadernoj Fiziki, Almaty (KZ)); Pavlov, S.S.; Frontas'eva, M.V. (Ob'edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ))*

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ee primeneniye»)

Rezultaty opredeleniya radionuklidnogo i ehlementnogo sostava obraztsov mkha Almatinskoy oblasti

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(RU)

Inst. Yadernoj Fiziki, Ministerstvo Ehnergetiki Respubliki Kazakhstan, Almaty (KZ)

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spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»). Abstracts

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AIR POLLUTION MONITORING; MOSES; CONCENTRATION RATIO;

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NEUTRON ACTIVATION ANALYSIS; ATMOSPHERIC PRECIPITATIONS;

EXPERIMENTAL DATA

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## **Principles and criteria of interpretation of natural and technogenic radioactive anomalies in environment objects**

**S54**

*Bakhur, A.E. (FGBU «VIMS», Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

Printsipy i kriterii interpretatsii prirodnykh i tekhnogennykh radioaktivnykh anomalij v ob"ektakh okruzhayushchej sredy

p. 302

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### **Statistic methods for assessments of risks and damages at nuclear power plants S21;S54**

*Valyaev, Alexander (Nuclear Safety Inst. of Russian Academy of Sciences, Moscow (RU)); Aleksanyan, G. (Yerevan State Univ., Yerevan (AM)); Valyaev, Alexey (Oklahoma State Univ., Stillwater (US)); Arkhipkin, O. (Kazakhstan Inst. of Oil and Gaz, Almaty (KZ))*

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REACTOR ACCIDENTS; ENVIRONMENTAL EFFECTS; ENVIRONMENTAL IMPACTS;  
ACCIDENT MANAGEMENT; NUCLEAR DAMAGE; THEORETICAL DATA

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## **Mass spectrometer MTI-350TM for determination of isotope composition of uranium, transuranium elements and MOX fuel**

**S11**

*Kuz'min, D.N.; Savina, Zh.A.; Borodin, A.V. (FGUP EhZAN, Chernogolovka Moskovskoj Obl. (RU)); Gall', L.N. (Inst. Analiticheskogo Priborostroeniya RAN, Sankt-Peterburg (RU)); Gall', N.R. (FGUP EhZAN, Chernogolovka Moskovskoj Obl. (RU)); Inst. Analiticheskogo Priborostroeniya RAN, Sankt-Peterburg (RU); FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU))*

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Mass-spektrometr MTI-350TM dlya opredeleniya izotopnogo sostava urana, transuranov i MOKS topliva

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MAGNETIC SPECTROMETERS; MASS RESOLUTION; TRANSURANIUM ELEMENTS;  
SENSITIVITY

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## **Dosimetry and monitoring - problems and their decision for industry and citizens**



S61

*Bredikhin, I. (OOO «GammaTek», Moscow (RU)), e-mail: ivan@gammatech.pro*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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RADIATION MONITORING; DOSIMETRY; RADIATION DETECTION; SURVEY MONITORS; AERIAL MONITORING; PHYSICAL PROTECTION DEVICES

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## **Study of interaction of Chernobyl-origin soil microfungi with fuel containing materials**

S63;S21

*Zheltonozhskaya, M.V.; Chernyaev, A.P. (Inst. Yadernykh Issledovaniy NAN Ukrainy, Kiev (UA)); Zheltonozhskij, V.A. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)); Tugaj, A.V.; Tugaj, T.I. (Inst. Mikrobiologii i Virusologii im. D.K. Zabolotnogo NAN Ukrainy, Kiev (UA))*

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## **Investigation of nonradioactive elements in probes of atmospheric aerosols and ground precipitation by means of neutron activation analysis**

**S54**

*Andreev, A.V.; Burmistrov, Yu.M.; Zuev, S.V.; Konobeevskij, E.S.; Mordovskoj, M.V. (Inst. Yadernyx Issledovanij Rossijskoj Akademii Nauk, Moscow (RU)); Pletnikov, E.V. (Moskovskij Aviatsionnyj Inst. (Natsional'nyj Issledovatel'skij Univ.), Moscow (RU))*

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Izuchenie s pomoshch'yu nejtronno-aktivatsionnogo analiza sostava neradioaktivnykh ehlementov v probakh atmosferykh aehrozolej i nazemnykh vypadenij iz atmosfery

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## **Study radionuclide behavior near Chernobyl NPP object «Ukrytie»**

**S21**

*Bondar'kov, D.M.; Kulich, N.V. (Inst. Yadernykh Issledovaniy NAN Ukrainy, Kiev (UA)); Zheltonozhskaya, M.V.; Chernyaev, A.P. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))*

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### **Laser spectroscopy and detection of actinides/lanthanides in biological samples S38;S63**

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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## **Radiation gamma-spectroscopic analysis of samples of atmospheric aerosols and ground precipitation**

**S54**

*Andreev, A.V.; Afonin, A.A.; Burmistrov, Yu.M.; Zuev, S.V.; Konobeevskij, E.S. (Inst. Yadernykh Issledovanij Rossijskoj Akademii Nauk, Moscow (RU)); Pletnikov, E.V. (Moskovskij Aviatsionnyj Inst. (Natsional'nyj Issledovatel'skij Univ.), Moscow (RU))*

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Radiatsionnyj gamma-spektrometricheskij analiz prob atmosferykh aehrozolej i nazemnykh vypadenij iz atmosfery

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## **Radiological problems of tritium: reasons, needs and approaches to harmonization of tritium standards between the CIS and leading nuclear states**

**S61**

*Synzynys, B.I.; Momot, O.A. (Obninsk Inst. for Nuclear Power Engineering of National Research Nuclear Univ. «MEPhI», Obninsk (RU)); Katkova, M.N. (Scientific and Production Association*



«Typhoon», Obninsk (RU))

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TRITIUM; DRINKING WATER; RADIONUCLIDE METROLOGY; RISK ASSESSMENT; PUBLIC HEALTH; HEALTH HAZARDS; TRITIUM OXIDES; EFFECTIVE RADIATION DOSES; MICRO SV RANGE; STANDARDIZATION

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## **Selective capability of Semipalatinsk test site plants to radionuclide uptake**

**S63**

*Plisak, R.P. (Inst. Botaniki i Fitointroduksii MON RK, Almaty (KZ)); Aralbaj, N.K. (Nauchno-Innovatsionnyj Park KazNPU im. Abaya, Almaty (KZ)); Novikova, N.M. (Inst. Vodnykh Problem RAN Moscow (RU)); Verner, D. (Dept. Biologii Marburgskogo Univ., Marburg (DE))*

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i ee primeneniye»)

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## **On measurement of high-energy $\beta$ - and $\gamma$ -emitters in sea water**

**S54**

*Sapozhnikov, Yu.A. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU)); Travkina, A.V. (Inst. Geokhimii i Analiticheskoy Khimii im. V.I. Vernadskogo, Moscow (RU))*

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## **Optimization of gamma-spectrometric measurements of natural radionuclides in soil samples and bottom sediments**

**S54**

*Sapozhnikov, Yu.A.; Sapozhnikova, L.D. (Khimicheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU)); Travkina, A.V. (Inst. Geokhimii i Analiticheskoy Khimii im. V.I. Vernadskogo, Moscow (RU))*

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## **Assessment of internal irradiation by incorporated radionuclides by means of whole-body spectrometer SICH-Eh**

**S63**

*Tarita, V.A.; Firsanov, V.B. (FGBU Vserossijskij Tsentr Ekhstrennoj i Radiatsionnoj Meditsiny im. A.M. Nikiforova MChS Rossii, Sankt-Peterburg (RU))*

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## **New lines of semiconductor detectors based on HPG made by ORTEC company** **S46**

*Pokrovskij, I.V. (ZAO «Pribory», Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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GAMMA SPECTROMETERS; HIGH-PURITY GE DETECTORS; KEV RANGE; EFFICIENCY; COUNTING RATES; ENERGY RESOLUTION

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## **Current gamma-spectroscopic instruments and systems of CANBERRA company** **S46**

*Rtishchev, V. (OOO «Kanberra-Pakkard Trejding Korporejshn», Predstavitel'stvo Kompanii «Mirion-CANBERRA», Moscow (RU))*

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## **Silicon based micropixel avalanche photodiodes for ionization particles**

**S46**

*Ahmadov, G.S. (Joint Inst. for Nuclear Researches, Dubna (XJ); Inst. of Radiation Problems of ANAS, Baku (AZ); National Nuclear Research Centre, Baku (AZ)); Ahmadov, F.I.; Sadigov, A.Z. (Inst. of Radiation Problems of ANAS, Baku (AZ); National Nuclear Research Centre, Baku (AZ)) (and others)*

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## **Effect of multiple Coulomb scattering on relative biological efficiency of heavy charged particle therapy**

**S63**

*Dolgoplov, M.A. (FGBOU VO «Voronezhskij Gosudarstvennyj Univ.», Voronezh (RU));*

*Zabelin, M.V. (Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU)); Shchelukhina,*

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## **X-ray exposure on germination kinetics of potato tubers**

**S60**

*Avdyukhina, V.M.; Bliznyuk, U.A.; Borshchegovskaya, P.Yu. (MGU imeni M.V. Lomonosova, Moscow (RU)), e-mail: uabliznyuk@gmail.com (and others)*

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## **Investigation of availability of annihilation photons for diagnostics of dose**

## **distribution in radiotherapy**

**S62**

*Varzar', S.M.; Lykova, E.N.; Morozova, E.P.; Sinel'nikov, A.G.; Chernyaev, A.P. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU))*

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Issledovanie vozmozhnosti ispol'zovaniya annigilyatsionnykh fotonov dlya diagnostiki raspredeleniya dozy v luchevoj terapii

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CT-GUIDED RADIOTHERAPY; COMPUTERIZED TOMOGRAPHY; DEPTH DOSE DISTRIBUTIONS; NEOPLASMS; COMPUTERIZED SIMULATION; MONTE CARLO METHOD; THEORETICAL DATA

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## **Study of availability of nuclear doping of large-diameter silicon ingots on IVV-2M reactor**

**S75**

*D'yakov, A.A.; Kozlov, A.V.; Markov, D.V.; Tolstoukhov, I.I.; Khvostov, S.S. (AO «Inst. Reaktornykh Materialov», Zarechnyj, Sverdlovskaya Obl. (RU))*

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Issledovanie vozmozhnosti yadernogo legirovaniya slitkov kremniya bol'shogo diametra na reaktore IVV-2M

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## **Modernization of radiation methods of bioimplant sterilization**

**S60**

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spektroskopii i strukture atomnogo yadra); 8-ya Evrazijskaya konferentsiya «Yadernaya nauka i

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## **Methods for determination of absorbed dose obtained by bone implant at radiation sterilization**

**S61**

*Rožanov, V.V. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU);*

*Nauchnyj i Uchebno-Metodicheskiy Tsentr Biomeditsinskih Tekhnologij VILAR, Moscow (RU));*

*Nikolaeva, A.A.; Chernyaev, A.P.; Belousov, A.V.; Yurov, D.S. (Moskovskij Gosudarstvennyj*

*Univ. imeni M.V. Lomonosova, Moscow (RU)); Matvejchuk, I.V. (Nauchnyj i Uchebno-*

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## **Reverse-tandem schemes of radionuclide generator organization**

**S38**

*Filosofov, D.V. (Ob"edinennyj Inst. Yadernykh Issledovaniy, Lab. Yadernykh Problem im. V.P. Dzhelepova, Dubna (XJ)), e-mail: dmitry\_filosofov@rambler.ru*

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## **Development of production technologies of $^{123}\text{I}$ and $^{124}\text{I}$ by TPU cyclotron**

**S07**

*Bol'shakov, A.M.; Garapatskij, A.A.; Golovkov, V.M.; Salodkin, S.S.; Semenov, A.S.  
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TEMPERATURE RANGE 0400-1000 K; MEV RANGE 01-10; ISOTOPE SEPARATION;  
YIELDS

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## **Development of radiopharmaceuticals in Tomsk for medical diagnostics in oncology**

**S07;S62**

*Nesterov, E.A. (Tomskij Politehnicheskij Univ., Tomsk (RU); OOO «Sibnuklon», Tomsk (RU)); Skuridin, V.S.; Il'ina, E.A.; Stasyuk, E.S.; Varlamova, N.V.; Sadkin, V.L.; Rogov, A.S.; Larionova, L.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Chernov, V.I. (Tomskij NIMTs, Tomsk (RU))*

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TOMOGRAPHY; NEOPLASMS

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## **Synthesis of polyvinylidene fluoride proton-exchange membrane for fuel elements**

**S37;S08**

*Sokhoreva, V.V.; Golovkov, V.M. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Fiziko-Tekhnicheskij Inst., Tomsk (RU)); Dyusembekova, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Fiziko-Tekhnicheskij Inst., Tomsk (RU));*

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POLYMERIZATION; ELECTRIC CONDUCTIVITY

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## **Scheme of $^{225}\text{Ac}$ separation from irradiated thorium targets**

**S07**

*Bajmukhanova, A.E. (Inst. Yadernoj Fiziki RK, Almaty (KZ); Ob'edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ)); Radchenko, V.I. (Otdel Nauk o Zhizni, TRIUMF, Vankuver (CA)); Filosofov, D.V. (Ob'edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ)), e-mail: ayagoz.88@mail.ru*

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Skhema razdeleniya  $^{225}\text{Ac}$  iz obluchennykh torievyykh mishenej

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## **Study of gadolinium sorption on sorbent for development of target for electron antineutrino detector**

**S37**

*Zinov'ev, V.G.; Mitropol'skij, I.A.; Shulyak, G.I.; Sushkov, P.A.; Malyutenkov, Eh.I.; Tyukavina, T.M.; Tikhonova, A.E.; Sakharov, S.L.; Okunev, I.S. (NITs «Kurchatovskij Inst.» - PIYaF, Gatchina (RU))*

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Izuchenie sorbtsii gadoliniya na sorbente dlya razrabotki misheni detektora ehlektronnykh antinejtrino

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GADOLINIUM; SORPTIVE PROPERTIES; ABSORBENTS; CHEMISORPTION; AQUEOUS

SOLUTIONS; HYDROCHLORIC ACID; CHEMICAL REACTION YIELD; DIFFUSION;

THEORETICAL DATA; EXPERIMENTAL DATA

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## **Experience of modernization of control and safety systems of research reactors**

**S21**

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**International scientific forum «Nuclear science and technologies», dedicated to the 60th**

**anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear**

**and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear**

**spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and**

**its application»)**

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ee primeneniye»)

Opyt modernizatsii sistem upravleniya i zashchity issledovatel'skikh reaktorov

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RELIABILITY; REACTOR SAFETY; REACTOR PROTECTION SYSTEMS; REACTOR  
MAINTENANCE

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## **Experimental installation of neutron radiography and tomography NRT on pulsed IBR-2 reactor**

**S46**

*Nazarov, K.M.; Kichanov, S.E.; Kozlenko, D.P.; Lukin, E.V.; Rutkauskas, A.N.; Savenko, B.N. (Lab. Neutronnoj Fiziki imeni I.M. Franka, OIYaI, Dubna (XJ))*

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SCINTILLATION DETECTORS; CHARGE-COUPLED DEVICES; COLLIMATORS;  
GONIOMETERS; PERFORMANCE

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## **Physical and energy start-up of upgraded IBR-2 (IBR-2M) reactor**

**S21**

*Anan'ev, V.D.; Vinogradov, A.V.; Dolgikh, A.V.; Edunov, L.V.; Pepelyshev, Yu.N.; Rogov, A.D.; Tsarenkov, S.A. (OIYaI, LNF, Dubna (XJ)); Zaikin, A.A.; Lokantsev, A.A. (ZAO «SNIIP-Sistematom», Moscow (RU))*

**International scientific forum «Nuclear science and technologies», dedicated to the 60th anniversary of the Institute of Nuclear Physics (11th International conference «Nuclear and radiation physics»; International conference «Nucleus-2017» (67th Meeting on nuclear spectroscopy and atomic nucleus structure), 8th Eurasian conference «Nuclear science and its application»)**

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## **Work schedule on development of JINR neutron source**

**S21**

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