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Часть 1

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International Atomic Energy Agency



Development of guidance documents for the EANPP group regarding their harmonization with the current regulatory framework of the Russian Federation and international standards

S22

Golubkin, V.A. (AO «Kontsern Rosehnergoatom», Moscow (RU)); Kosov, A.D. (AO «VNIIEhS», Moscow (RU))

11th International scientific-technical conference «Safety, efficiency and economics of nuclear energy»

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Odinnadtsataya Mezhdunarodnaya nauchno-tekhnicheskaya konferentsiya «Bezopasnost', ehffektivnost' i ehkonomika atomnoj ehnergetiki»

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Aktsionernoe Obshchestvo «Rossijskij Kontsern po Proizvodstvu Ehlektricheskoy i Teplovoj Ehnergii na Atomnykh Stantsiyakh» (AO «EhNITs»), Ehlektrogorsk Moskovskoj Obl. (RU)

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Orehhov, A.A.; Kosov, A.D. (AO «VNIIEhS», Moscow (RU))

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Kiselev, A.E.; Dolganov, K.S.; Tomashchik, D.Yu.; Bakin, R.I.; Kiselev, A.A.; Krasnoperov, S.N. (IBRAEh RAN, Moscow (RU))

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S22

Aron, D.V. (IBRAEh RAN, Moscow (RU))

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S22

Polyantsev, S.S.; Kosov, A.D.; Orekhov, A.A.; Illarionenkova, D.V. (AO «VNIAEhS», Moscow (RU))

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S22

Gorbacheva, N.V.; Kulich, N.V.; Kuz'mina, N.D. (GNU «Ob'edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij – «Sosny» NAN Belarusi, Minsk (BY))

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Ashurko, Yu.M. (AO «GNTs RF-FEhI», Obninsk (RU))

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S21

Murav'ev, E.V. (ChU GK «Rosatom» «ITTsP «Proryv»», Moscow (RU))

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Kagramanyan, V.S.; Chebeskov, A.N.; Dekusar, V.M.; Gurskaya, O.S. (GNTs RF Fiziko-Ehnergeticheskij Inst. im. A.I. Lejpunskogo, Obninsk (RU))

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S21

Lemekhov, V.V.; Moiseev, A.V.; Smirnov, V.S.; Yarmolenko, O.A.; Vasyukhno, V.P.; Cherepnin, Yu.S.; Afremov, D.A.; Lemekhov, Yu.V. (AO «NIKIEhT», Moscow (RU))

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Stepanov, V.S.; Komarov, A.A.; Bolvanchikov, S.N.; Lunev, G.D.; Soshnikov, A.A.; Klimov, N.N. (AO OKB «GIDROPRESS», Podol'sk (RU))

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S21

Petrochenko, V.V.; Grigor'ev, S.A.; Dedul', A.V.; Komlev, O.G.; Kondaurov, A.V.; Toshinskij, G.I. (AO «AKMEh-Inzhiniring», Moscow (RU))

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Blagoveshchenskij, A.Ya.; Gusev, L.B. (Voенno-Morskoy Politekhnikeskij Inst., VUNTs VMF «Voенno-Morskaya Akademiya», Sankt-Peterburg (RU))

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S21

Sedov, A.A. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Bobrov, E.A.; Teplov, P.S.; Gurin, A.V.; Grol', A.V. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Sorokin, A.P.; Gulevich, A.V.; Kamaev, A.A.; Kuzina, Yu.A.; Ivanov, A.P.; Alekseev, V.V.; Morozov, A.V. (AO «GNTs RF – Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU))

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Petrinin, V.V.; Kodochigov, N.G.; Fateev, S.A.; Kodochigov, G.N. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU)); Ponomarev-Stepnoj, N.N. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Sorokin, A.P.; Kuzina, Yu.A.; Ivanov, E.F.; Privezentsev, V.V.; Ashurko, Yu.M.; Volkov, A.V.; Berenskij, L.L.; Denisova, N.A. (AO «GNTs RF Fiziko-Ehnergeticheskij Inst. im. A.I. Lejpunskogo», Obninsk (RU))

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*Bolnov, V.A.; Zotov, I.S.; Ushatkov, A.S. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU));
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Sviridenko, I.I.; Shevelev, D.V. (Sevastopol'skij Gosudarstvennyj Univ., Sevastopol' (RU))

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Boldyrev, V.M. (Mezhdunarodnyj Soyuz Veteranov Atomnoj Ehnergetiki i Promyshlennosti, Moscow (RU))

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Khorasanov, G.L.; Samokhin, D.S.; Zevyakin, A.S. (IATEh NIYaU MIFI, Obninsk (RU)); Zemskov, E.A. (AO «GNTs RF-FEhI», Obninsk (RU)); Blokhin, A.I. (IBRAEh RAN, Moscow (RU))

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Shafikov, R.T. (AO «GMZ «Khim mash», Moscow (RU))

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Blagoveshchenskij, A.Ya.; Gusev, L.B. (Voenno-Morskoy Politehnicheskij Inst., VUNTs VMF «Voenno-Morskaya Akademiya», Sankt-Peterburg (RU))

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Sychugin, V.I.; Kormilitsyn, A.A. (AO «Atomtekhehnergo», Moscow (RU))

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Sukhorukov, Yu.G.; Smolkin, Yu.V.; Sokolov, K.V. (OAO «NPO TsKTI», Sankt-Peterburg (RU))

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Rachkov, V.L. (AO «Atomtekhehnergo», «Rostovatomtekhehnergo», Volgodonsk, Rostovskaya Obl. (RU))

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Kanakov, V.Yu.; Aliev, R.R. (AO «Atomtekhehnergo», Balakovskij Filial «Balakovoatomtekhehnergo», Balakovo (RU))

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Domukhovskij, N.A. (OOO «Ural'skij Tsentri Sistem Bezopasnosti», Ekaterinburg (RU))

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Ermakov, I.A. (Goskorporatsiya «Rosatom», Moscow (RU))

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Khval'ko, A.A. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Osetskaya, M.M. (ANO DPO «Tekhnicheskaya Akademiya Rosatoma», Obninsk (RU))

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Panov, S.A.; Presnyakov, I.V.; Tolstoukhov, D.A. (Chastnoe Uchrezhdenie «ITsP «PRORYV», Moscow (RU))

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Smirnova, L.S. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Polozov, A.G.; Skoblikov, A.G. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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S29

*Veselov, F.V.; Novikova, T.V. (Inst. Ehnergeticheskikh Issledovanij RAN, Moscow (RU));
Tolstoukhov, D.A. (ITTsP «Proryv», Moscow (RU))*

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Gurin, A.V.; Teplov, P.S. (NITs «Kurchatovskij Inst.», Moscow (RU))

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S29

Koltun, O.V.; Pavlov, A.S.; Temishev, R.R.; Tykshaev, V.P.; Orekhov, M.N. (AO «VNIAEhS», Moscow (RU))

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Serebrenikova, M.S. (Filial AO «Kontsern Rosehnergoatom» «Kol'skaya Atomnaya Stantsiya», Polyarnye Zori (RU))

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S29

Popov, S.G. (Goskorporatsiya «Rosatom», Moscow (RU))

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Chistyakova, A.V. (Goskorporatsiya «Rosatom», Moscow (RU))

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Shal'nov, O.E.; Nemchenkov, S.N.; Mets, A.A. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Lysachev, M.N. (AO «KONSIST-OS», Moscow (RU))

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Frolov, F.V. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Andreeva, L.V. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Belousov, P.A.; Skomorokhov, A.O. (Obninskij Inst. Atomnoj Ehnergetiki – Filial Natsional'nogo Issledovatel'skogo Yadernogo Univ. MIFI, Obninsk (RU))

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Drumov, I.V.; Malyshev, G.S. (AO «OKBM Afrikantov», Nizhnij Novgorod (RU))

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Khalizov, M.V.; Sinegub, O.I.; Eliseev, I.A. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Klyushnikov, D.I. (GP «NAEhK «EhNERGOATOM» OP «Khmel'nitskaya AEhS», Neteshin (UA)); Shubovskij, D.A. (VAO AEhS, Neteshin (UA))

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Vozhegova, M.A. (Gartner, Stehmford, Konnektikut (US))

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Makedonskij, S.N.; Tambiev, M.I. (Forrester Research, Cambridge, Massachusetts (US))

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Khlopov, N.M. (The Hinge Ideas, Moscow (RU))

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Podol'nyj, V.P. (Moskovskij Zavod FIZPRIBOR, Moscow (RU))

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Gusarov, E.S.; Sobolev, A.V. (OOO «Sistema», Moscow (RU)); Gurinovich, V.D. (AO «VNIAEhS», Moscow (RU))

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S22

Korchenenkov, D.A.; Katalevich, A.M.; Nikolaev, M.S. (Chastnoe Uchrezhdenie «ITTsP «PRORYV», Moscow (RU))

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S22

Dogov, A.A. (AO IK «ASEh», Nizhnij Novgorod (RU))

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Implementing the «One contact» principle**

S22

Shifrin, A.M.; Zyuzina, M.V. (Novovoronezhskaya AEhS, Novovoronezh (RU))

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A phased approach to the development of nuclear energy infrastructure. IAEA support provided to newcomers

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Kovachev, M. (MAGATEh, Vena (XA))

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Polyakov, A. (Londonskij Ofis VAO AEhS, London (GB))

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Chernyakhovskaya, Yu.V.; Cherevko, Yu.A. (AO «Rusatom Servis», Moscow (RU))

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S29

Kamarka, N. (EhdF, Parizh (FR))

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S22

Tszyan, F. (Mezhdunarodnoe Agentstvo po Atomnoj Ehnergii, Vena (XA))

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Majar, Eh. (EhdF, Parizh (FR))

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Parfenov, A.A.; Valeev, R.Sh.; Karpenko, N.A. (GP «Belorusskaya AEhS», Ostrovets (BY))

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Shchelik, Yu.V. (Moskovskij Tsentri VAO AEhS, Moscow (RU))

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Bojkovski, R. (VAO AEhS-MTs, Moscow (RU))

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S22

Glorennek, K. (Dept. YaEh MAGATEh, Vena (XA))

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Rakhuba, A.Yu. (Filial «Kontserna Rosehnergoatom» Leningradskaya Atomnaya Stantsiya, Sosnovyj Bor (RU))

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S22

Khadnad', L. (MVM AEhS Paksh, Paksh (HU))

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Tashlykov, O.L.; Shcheklein, S.E. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU)); Khimchak, D.M.; Tuchkov, A.M. (Beloyarskaya AEhS, Zarechnyj (RU))

11th International scientific-technical conference «Safety, efficiency and economics of nuclear energy»

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Malozemov, S.N. (AO AKKUYu NUKLEAR, Ankara (TR)); Kuritsyn, D.B.; Fokin, K.B. (AO IK «ASEh», Nizhnij Novgorod (RU))

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S99

Fokin, K.B. (AO IK «ASEh», Nizhnij Novgorod (RU))

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Bila, N. (VAO AEhS – MTs na AEhS Temelin, Cheske-Budeevitse (CZ))

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S22

Kosareva, I.V. (Novovoronezhskaya AEhS, Novovoronezh (RU))

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Kovalev, A.V. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Kvasha, A.V. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Vol'man, M.A. (FGBOU VO «Ivanovskij Gosudarstvennyj Ehnergeticheskij Univ. imeni V.I. Lenina», Ivanovo (RU))

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Leskin, S.T.; Slobodchuk, V.I.; Chistozvonova, E.A. (Obninskij Inst. Atomnoj Ehnergetiki (IATEh NIYaU MIFI), Obninsk (RU))

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Filip'ev, I.S.; Karmanov, F.I.; Artisyuk, V.V. (ANO DPO «Tekhnicheskaya Akademiya Rosatoma», Obninsk (RU)); Karezin, V.V. (Goskorporatsiya «Rosatom», Moscow (RU))

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Kritskij, R.O.; Borisenko, M.I. (AO «Kontsern Rosehnergoatom», Moscow (RU)); Lyashchenko, S.A. (ANO DPO «Tekhnicheskaya Akademiya Rosatoma», Obninsk (RU))

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Podolyakin, D.P.; Ponomarenko, A.A.; Shulepova, N.A. (ANO DPO «Tekhnicheskaya Akademiya Rosatoma», Obninsk (RU))

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D'yachenko, A.I.; Artisyuk, V.V. (ANO DPO «Tekhnicheskaya Akademiya Rosatoma», Obninsk (RU)); Ponomarev-Stepnoj, N.N.; Alekseev, S.V. (AO «Kontsern Rosehnergoatom», Moscow (RU))

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Mikheev, M.I. (Smolenskoe RO MOOVK, Smolensk (RU))

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Artem'ev, K.V.; Batanov, G.M.; Berezhetskaya, N.K. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: kossyi@fpl.gpi.ru (and others)

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Kalashnikov, A.V.; Novitskij, A.A. (Inst. Fizicheskikh Issledovanij i Tekhnologij RUDN, Moscow (RU)), e-mail: guiltyvine@gmail.com

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Characteristics of electron drift in iron, copper and mercury vapors

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Kurbanismailov, V.S.; Ragimkhanov, G.B. (Dagestanskij Gosudarstvennyj Univ., Makhachkala (RU)), e-mail: gb-r@mail.ru; Majorov, S.A. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU))

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Andreev, V.V.; Novitskij, A.A.; Umnov, A.M. (Inst. Fizicheskikh Issledovanij i Tekhnologii RUDN, Moscow (RU)), e-mail: temple18@mail.ru

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Lebedev, Yu.A.; Tatarinov, A.V.; Ehpshtejn, I.L.; Bilera, I.V. (TIPS RAS, Moscow (RU)), e-mail: lebedev@ips.ac.ru

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Gusejn-Zade, N.G.; Karfidov, D.M.; Sergejchev, K.F. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)); Zhukov, V.I. (Moskovskij Tekhnologicheskij Univ., Moscow (RU)), e-mail: sevich999@mail.ru

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**Study of the radial distribution of the populations of Ar ($3p^54p$) and Ne ($2p^53p$)
electronic states in a DC glow discharge**

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Grigor'yan, G.M. (SPbGU, Sankt-Peterburg (RU)), e-mail: galgr2@rambler.ru; Dyatko, N.A.; Kochetov, I.V. (GNTs RF TRINITI, Troitsk, Moscow (RU)), e-mail: dyatko@triniti.ru

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Kalinin, S.A.; Kapitonova, M.A.; Matveev, R.M.; Meshchanov, A.V.; Ionikh, Yu.Z. (Sankt-Peterburgskij Univ., Sankt-Peterburg (RU)), e-mail: y.ionikh@spbu.ru

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Marusov, N.A. (Rossijskij Univ. Druzhby Narodov, Moscow (RU); Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU); Moskovskij Fiziko-Tekhnicheskij Inst., Dolgoprudnyj, Moskovskaya Obl. (RU)); Sorokina, E.A.; Lakhin, V.P.; Il'gisonis, V.I. (Rossijskij Univ. Druzhby Narodov, Moscow (RU); Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Smolyakov, A.I. (Rossijskij Univ. Druzhby Narodov, Moscow (RU); Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU); Univ. Saskatchewan, Saskatoon (CA))

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Kirij, N.P.; Markov, V.S.; Vasil'kov, D.G.; Voronova, E.V. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: kyrie@fpl.gpi.ru

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The general theory of ionization and field instabilities in a plasma layer

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Dvinin, S.A. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)), e-mail: s_dvinin@mail.ru; Dovzhenko, V.A. (Inst. Fiziki Atmosfery imeni A.M. Obukhova RAN, Moscow (RU)); Sinkevich, O.A. (Natsional'nyj Issledovatel'skij Univ.

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Gajsin, Al.F.; Galimzyanov, I.I. (Kazanskij Natsional'nyj Issledovatel'skij Tekhnicheskij Univ. im. A.N. Tupoleva - KAI, Kazan' (RU)), e-mail: almaz87@mail.ru

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Gajsin, Al.F.; Galimzyanov, I.I. (Kazanskiy Natsional'nyj Issledovatel'skij Tekhnicheskij Univ. im. A.N. Tupoleva - KAI, Kazan' (RU)), e-mail: almaz87@mail.ru

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Pashchina, A.S.; Efimov, A.V.; Kazanskiy, P.N.; Chinnov, V.F. (Ob'edinennyj Inst. Vysokikh Temperatur (OIVT RAN), Moscow (RU))

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Kotel'nikov, M.V.; Platonov, M.A. (NIU MAI, Moscow (RU)), e-mail: mai@mail.ru

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Titov, V.A.; Kuz'micheva, L.A.; Losev, N.V.; Lipatova, I.M.; Nikitin, D.I. (Inst. Khimii Rastvorov im. G.A. Krestova RAN, Ivanovo (RU)), e-mail: tva@isc-ras.ru

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Omarov, O.A.; Omarova, N.O.; Omarova, P.Kh. (Dagestanskij Gosudarstvennyj Univ., Makhachkala (RU)), e-mail: inporao@mail.ru

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S70

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Fluctuation characteristics of parameters of DC glow discharge at atmospheric pressure due to glimmer of anode spots

S70

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STARK EFFECT; IMAGES; EXPERIMENTAL DATA

Use of atmospheric pressure air plasma jet in biomedical applications

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Kazak, A.V.; Simonchik, L.V.; Vabishchevich, E.N. (Inst. Fiziki NAN Belarusi, Minsk (BY)), e-mail: a.pavlova@ifanbel.bas-net.by; Emel'yanova, O.A.; Dudchik, N.V. (Nauchno-Prakticheskij Tsentr Gigieny MZ Belarusi, Minsk (BY)), e-mail: n_dudchik@tut.by

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Filimonova, E.A.; Dobrovolskaya, A.S.; Bocharov, A.N.; Bityurin, V.A. (Ob"edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), e-mail: helpfil@mail.ru,

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Synthesis of graphene and its doping at the conversion of methane in the nitrogen plasma jet

S36;S77

Shavelkina, M.B.; Filimonova, E.A.; Amirov, R.Kh.; Ochkan', A.L. (Ob''edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), e-mail: mshavelkina@gmail.com

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O₂ dissociation and fast gas heating in oxygen mixtures, excited by pulsed electron beam

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Popov, N.A. (NII Yadernoj Fiziki im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU))

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Regularities of submillimeter emission during interaction of kiloampere relativistic electron beam with plasma

S70

Arzhannikov, A.V.; Burmasov, V.S.; Ivanov, I.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)), e-mail: a.v.arzhannikov@inp.nsk.su (and others)

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Trunev, Yu.A.; Arakcheev, A.S.; Astrelin, V.T. (IYaF SO RAN im. G.I. Budkera, Novosibirsk (RU)), e-mail: yu.a.trunev@inp.nsk.su (and others)

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Arzhannikov, A.V.; Sinitskij, S.L.; Stepanov, V.D. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)), e-mail: sinitsky@inp.nsk.su; Ivanenko, V.G.; Makarov, M.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)); Samtsov, D.A. (Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU))

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On limitation of productivity of a plasma-optical mass-separator

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Fluctuations of charge on condensing dust nuclei: models and applications

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Gamma-ray sources based on nonlinear Compton scattering and their optimization

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Rykovanov, S.G. (Helmholtz Inst., Jena (DE))

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Plasma microwave amplifier of relativistic electron beam noises

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Dias-Mikhajlova, D.E.; Ivanov, I.E.; Strelkov, P.S.; Shumejko, D.V. (Inst. Obshchej Fiziki im. A.N. Prokhorova RAN, Moscow (RU)), e-mail: postmaster@kapella.gpi.ru

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Piskarev, I.M. (NIIYaF MGU, Moscow (RU)), e-mail: i.m.piskarev@gmail.com; Astaf'eva, K.A.; Ivanova, I.P. (Nizhegorodskaya Gosudarstvennaya Meditsinskaya Akademiya, Nizhnij Novgorod (RU)), e-mail: ivanova.ip@mail.ru

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Anpilov, A.M.; Barkhudarov, Eh.M.; Kossyj, I.A.; Moryakov, I.V.; Smirnov, M.G.; Taktikishvili, M.I. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: anpilov56@gmail.com

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Ivanov, V.A. (IOF RAN, Moscow (RU); NIYaU "MIFI", Moscow (RU)), e-mail: ivanov@fpl.gpi.ru; Sakharov, A.S.; Konyzhev, M.E. (IOF RAN, Moscow (RU))

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Andreev, V.V.; Asanina, S.G.; Voldiner, I.A.; Korneeva, M.A. (Rossijskij Univ. Druzhby Narodov, Moscow (RU)), e-mail: airc@list.ru

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Andreev, V.V.; Korneeva, M.A. (Rossijskij Univ. Druzhyby Narodov, Moscow (RU)), e-mail: aite@list.ru; Vasileska, I. (Lyublyanskij Univ., Lyublyana (SI)), e-mail:

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Bishaev, A.M.; Gamov, N.A.; Desyatskov, A.V.; Zverev, M.M.; Kozintseva, M.V.; Boev, K.O. (Moskovskij Tekhnologicheskij Univ. MIREhA, Moscow (RU)), e-mail: bishaev@mirea.ru

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Garanin, S.F.; Kuznetsov, S.D.; Vlasov, K.O. (FGUP "RFYaTs-VNIIEhF", Sarov (RU)), e-mail: sfgar@vniief.ru

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Kozlovskij, K.I.; Isaev, A.A.; Vovchenko, E.D. (Natsional'nyj Issledovatel'skij Yadernyj Univ. "MIFI", Moscow (RU)), e-mail: isaev@lenta.ru

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S70

Kan'shin, I.A. (FGUP "VNIIA", Moscow (RU)), e-mail: vniia4@vniia.ru

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Dielectric detectors for registration of powerful X-ray radiation of megaampere pinches

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Barykov, I.A. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Rossijskij Univ. Druzhby Narodov, Moscow (RU)), e-mail: barykov@triniti.ru; Gritsuk, A.N.; Zajtsev, V.I.; Kartashov, A.V.; Rodionov, N.B.; Terent'ev, O.V. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU)); Dan'ko, S.A. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Natsional'nyj Issledovatel'skij Tsentr "Kurchatovskij Inst.", Moscow (RU))

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Furov, L.V. (FGBOU VO "Vladimirskij Gosudarstvennyj Univ. imeni Aleksandra Grigor'evicha i Nikolaya Grigor'evicha Stoletovykh" (VIGU), Vladimir (RU)), e-mail: lfurov@vlsu.ru

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Microwave atmospheric-pressure plasma torch in CVD technology of diamond synthesis**S75;S70**

Arutyunyan, N.R. (Inst. Obshchej Fiziki im. A.M. Prokhorova, Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. "MIFI", Moscow (RU)); Letunov, A.A.; Lukina, N.A.; Sergejchev, K.F. (Inst. Obshchej Fiziki im. A.M. Prokhorova, Moscow (RU)), e-mail: k-sergeichev@yandex.ru, let@fpl.gpi.ru; Petrovskij, N.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU))

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Nanocarbon colloid, obtained by spark discharge in ethanol, for substrate seeding in MPACVD technology of polycrystalline diamond film synthesis S75;S70

Abakumov, M.A. (Rossijskij Natsional'nyj Nauchno-Issledovatel'skij Meditsinskij Univ. im. N.I. Pirogova, Moscow (RU)); Anpilov, A.M.; Barkhudarov, Eh.M. (Inst. Obshchej Fiziki im. A.M. Prokhorova, Moscow (RU)) (and others)

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Results activity on ITER project at BINP SB RAS in 2017

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Status of Thomson scattering diagnostic in ITER divertor

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Kurskiev, G.S.; Mukhin, E.E.; Tolstyakov, S.Yu. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)), e-mail: Gleb.Kurskiev@mail.ioffe.ru (and others)

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Progress in ITER reflectometry

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Progress in the development of diagnostics of ITER tokamak reactor «Neutron Spectrometer»

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Kovalev, A.O.; Kashchuk, Yu.A.; Portnov, D.V. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: A.Kovalev@iterrf.ru, Y.Kashchuk@iterrf.ru, D.Portnov@iterrf.ru

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Metrological aspects of measurements of ITER divertor neutron flux monitor

S70

Portnov, D.V.; Kashchuk, Yu.A.; Obudovskij, S.Yu.; Batyunin, A.V.; Kovalev, A.O. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: d.portnov@iterrf.ru

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Protection and recovery of optical components of Thomson scattering diagnostics of ITER tokamak divertor

S70

Razdobarin, A.G.; Babinov, N.A.; Bazhenov, A.N. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)), e-mail: Aleksey.Razdobarin@mail.ioffe.ru (and others)

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Properties of boron carbide ceramics obtained by different methods for ITER application

S36;S70

Shoshin, A.A.; Burdakov, A.V.; Ivantsivskij, M.V.; Klimenko, M.V.; Polosatkin, S.V. (Inst. Yadernoj Fiziki SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU))

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**Organization of access to ITER experimental data in remote control mode
S97;S70**

Semenov, I.; Golachev, V.; Mironova, E.; Nikolaeva, D.; Portone, S.; Skopintsev, D. (Project Center ITER (Russian Domestic Agency), Moscow (RU)), e-mail: i.semenov@iterrf.ru, v.golachev@iterrf.ru, e.mironova@iterrf.ru, d.nikolaeva@iterrf.ru, s.portone@iterrf.ru, d.scopincev@iterrf.ru

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**Optimization of the synthetic model of diagnostics of ITER tokamak reactor
«Divertor Neutron Flux Monitor»**

S70

Kovalev, A.O.; Kashchuk, Yu.A.; Portnov, D.V. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: A.Kovalev@iterrf.ru, Y.Kashchuk@iterrf.ru, D.Portnov@iterrf.ru

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tokamaka-reaktora ITEhR

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The investigation of the degradation of Mo mirrors of ITER optical diagnostics in the case of simulation of water leakage into the reactor chamber

S70

Rogov, A.V.; Kapustin, Yu.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU); Koordinatsionnyj Tsentr «Upravlyaemyj Termoyadernyj Sintez - Mezhdunarodnye Proekty», Moscow (RU)), e-mail: kapura90@yandex.ru

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Design of full-scale layout of the first wall panel with mechanical fastening of power-stressed components

S70

Tomilov, S.N.; Sviridenko, M.N.; Leshukov, A.Yu.; Murtazina, D.R.; Trapeznikova, O.V. (AO «NIKIEhT», Moscow (RU)), e-mail: Tomilov@nikiet.ru

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Recovery of hydrogen wall influx by the H_{#alpha#}-spectroscopy in ITER: comparison of ballistic model and EIRENE code simulations

S70

Kukushkin, A.B.; Lisitsa, V.S. (NITs «Kurchatovskij Inst.», Moscow (RU); NIYaU «MIFI», Moscow (RU)), e-mail: Kukushkin_AB@nrcki.ru; Neverov, V.S.; Shurygin, V.A.; Alekseev, A.G. (NITs «Kurchatovskij Inst.», Moscow (RU)); Lisgo, C.V. (ITER Organization, Saint-Paul-lez-Durance (FR))

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Development of diagnostic system elements for DNPS

S46;S70

Artem'ev, K.K. (Proektnyj Tsentr ITEhR Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom», Moscow (RU)), e-mail: artemevkk@gmail.com; Rodionov, N.B.; Amosov, V.N.; Krasil'nikov, V.A.; Meshchaninov, S.A.; Rodionova, V.P. (AO «GNTs RF TRINITI», Moscow, Troitsk (RU)), e-mail: rodionovnb@gmail.com

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Assessment of line radiation imprisonment effects during discharge quenching by intense argon injection in ITER

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Kukushkin, A.B.; Lisitsa, V.S. (NITs «Kurchatovskij Inst.», Moscow (RU); NIYaU «MIFI», Moscow (RU)); Sdvizhenskij, P.A.; Levashova, M.G.; Zhogolev, V.E.; Leonov, V.M.; Kononov, S.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Sdvizgenskii_PA@nrcki.ru

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Development and testing of a fast neutrons detector unit for the ITER upper neutron chamber

S46;S70

Rodionov, N.B.; Meshchaninov, S.A. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom», Moscow (RU)); Amosov, V.N.; Rodionov, R.N. (AO «GNTs RF TRINITI», Moscow, Troitsk (RU)), e-mail: rodionovnb@gmail.com; Aristov, I.N.; Surikov, K.N.; Filippov, A.N. (Aksionernoe Obshchestvo «Nauchno-Issledovatel'skij Inst. Tekhnicheskoy Fiziki i Avtomatizatsii», Moscow (RU))

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Effect of multipass absorption of external electron cyclotron radiation at initial stage of discharge in ITER

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Minashin, P.V.; Lukash, V.Eh. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Minashin_PV@nrcki.ru; Khajrutdinov, R.R. (NITs «Kurchatovskij Inst.», Moscow (RU)); AO «GNTs RF TRINITI», Moscow, Troitsk (RU)); Kukushkin, A.B. (NITs «Kurchatovskij Inst.», Moscow (RU)); NIYaU «MIFI», Moscow (RU))

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Measurement of surface temperature of tungsten tile fragment prototypes for ITER divertor in tokamak T-10 working discharges by means of two-spectral pyrometer

S70

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dvukhspektral'nogo pirometra

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Development of computerized scanning system of plasma radiation

S46;S70

Lan'e, I.V.; Lukashevskij, M.V. (Natsional'nyj Issledovatel'skij Univ. «MEI», Moscow (RU))

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Improved modular construction of the ITER equatorial port №11

S70

Sulyaev, Yu.S.; Shoshin, A.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)), e-mail: Yu.S.Sulyaev@inp.nsk.su; Aleksandrov, E.V. (Chastnoe Uchrezhdenie GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)) (and others)

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External resonant magnetic fields control system of the tokamak T-10 on the basis of controllers Siemens S7-400

S70

Shestakov, E.A.; Savrukhnin, P.V. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Role of electric arc formation in heating the tokamak T-10 tungsten limiter under high plasma and heat loads expected in ITER

S70

Budaev, V.P. (Natsional'nyj Issledovatel'skij Univ. «MEI», Moscow (RU); NITs «Kurchatovskij Inst.», Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU)), e-mail: budaev@mail.ru; Grashin, S.A.; Karpov, A.V. (Natsional'nyj Issledovatel'skij Univ. «MEI», Moscow (RU)); Khimchenko, L.N. (ChU GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU))

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EROSION; ECR HEATING; HEATING LOAD; CRACKS; ELECTRON EMISSION;
EXPERIMENT RESULTS; IMAGES; INTERNATIONAL COOPERATION

**Tests of refractory and high porous metals in the MEhI plasma installation
S36;S70**

Budaev, V.P. (Natsional'nyj Issledovatel'skij Univ. «MEhI», Moscow (RU); NITs «Kurchatovskij Inst.», Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU)); Fedorovich, S.D.; Lukasheskij, M.V.; Gubkin, M.K.; Lazukin, A.V. (Natsional'nyj Issledovatel'skij Univ. «MEhI», Moscow (RU)); Martynenko, Yu.V.; Karpov, A.V.; Shestakov, E.A. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Preliminary design of UP№02 and UP№08 integration

S70

Listopad, A.A.; Gorbovskij, A.I.; Zajtsev, E.K. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)), e-mail: a.a.listopad@inp.nsk.su (and others)

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Electromagnetic, thermal and structural analysis of diagnostic module elements of ITER «Active Spectroscopy»

S70

Kirienko, I.D.; Fedorenko, R.V.; Buslakov, I.V.; Modestov, V.S. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU)), e-mail: vmodestov@spbstu.ru; Tugarinov, S.N. (Chastnoe Uchrezhdenie GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: S.Tugarinov@iterrf.ru; Naumenko, N.N. (Inst. Fiziki imeni B.I. Stepanova NAN RB, Minsk (BY)), e-mail: naumenko@imaph.bas-net.by

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Calculation modeling of electromagnetic, mechanical and seismic loads of the refined models of design elements of upper ports №02 and №08

S70

Modestov, V.S.; Loginov, I.N.; Shagniev, O.B.; Kirienko, I.D.; Lobachev, A.M.; Murtazin, I.R. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU)), e-mail: vmodestov@spbstu.ru; Listopad, A.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)); Ivantsivskij, M.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)), e-mail: M.V.Ivantsivsky@inp.nsk.su

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Raschetnoe modelirovanie ehlektromagnitnykh, mekhanicheskikh i sejsmicheskikh nagruzok utochnennykh modelej ehlementov konstruksij verkhnikh portov №№ 02 i 08

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THERMAL HYDRAULICS; FLUID FLOW; A CODES; HYPOTHETICAL ACCIDENTS;
RELIABILITY; THEORETICAL DATA; INTERNATIONAL COOPERATION

Complex tests of design elements of ITER first wall panels and blanket module connectors

S70

Cheburova, A.V.; Khomyakov, S.Eh.; Kolganov, V.Yu.; Poddubnyj, I.I.; Vlasov, D.A.; Parshutin, E.V.; Leshukov, A.Yu.; Sviridenko, M.N.; Tomilov, S.N.; Razmerov, A.V. (AO «Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotekhniki im. N.A. Dollezhalya», Moscow (RU)), e-mail: nikiet@nikiet.ru

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RESIDUAL STRESSES; EXPERIMENT RESULTS; INTERNATIONAL COOPERATION

Development the complex for quality control of stripping target of atom charge

exchange analyzer

S75;S70

Navolotskij, A.S.; Afanas'ev, V.I.; Mironov, M.I.; Nesenevich, V.G.; Petrov, M.P.; Petrov, S.Ya. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)), e-mail: anavolotsky@mail.ioffe.ru

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ITER TOKAMAK; NEUTRAL PARTICLE ANALYZERS; TARGETS; CARBON; THIN FILMS; THICKNESS; QUALITY CONTROL; CRYSTAL DEFECTS; PERFORMANCE TESTING; INTERNATIONAL COOPERATION

Experimental realization of non-resonance photoneutralizer for negative ion beams

S70

Atlukhanov, M.G.; Vakhrushev, R.V.; Ivanov, A.A.; Kolmogorov, A.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)), e-mail: atluhanov.m@gmail.com; Burdakov, A.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)); Popov, S.S. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)); Ushkova, M.Yu. (Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU))

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Laser-induced fluorescence diagnostics of helium in ITER divertor plasma

S70

Gorbunov, A.V.; Levashova, M.G.; Lisitsa, V.S.; Vukolov, K.Yu. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: alexeygor@mail.ru; Mukhin, E.E.; Tolstyakov, S.Yu. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU))

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Methods of scintillation gamma spectrometer signal processing in high counting rate measurements

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Khil'kevich, E.M.; Shevelev, A.E.; Chugunov, I.N.; Gin, D.B.; Il'yasova, M.V.; Dojnikov, D.N.; Najdenov, V.O.; Polunovskij, I.A. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe Rossijskoj Akademii Nauk, Sankt-Peterburg (RU)), e-mail: e.khilkevitch@mail.ioffe.ru

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The ITER PF1 poloidal coil electrical joint test results

S70

Koval'chuk, O.A.; Marushin, E.L.; Mednikov, A.A.; Rodin, I.Yu.; Stepanov, D.B. (Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskij Apparatury im. D.V. Efremova, Sankt-Peterburg (RU)),

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Modular option of first wall panel

S70

Murtazina, D.R.; Trapeznikova, O.V.; Tomilov, S.N.; Razmerov, A.V.; Sviridenko, M.N.; Leshukov, A.Yu. (AO «Ordена Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotekhniki im. N.A. Dollezhalya», Moscow (RU)), e-mail: nikiet@nikiet.ru

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ITER TOKAMAK; FIRST WALL; MOCKUP; MODULAR STRUCTURES; STRESS ANALYSIS; TEMPERATURE DISTRIBUTION; THERMAL HYDRAULICS; INTERNATIONAL COOPERATION

Use architecture TESLA for experimental data processing of ITER VNC diagnostics

S46;S70

Skopintsev, D.A.; Semenov, I.B.; Portone, S.S.; Kuz'minov, S.A.; Larionov, A.S. (Chastnoe Uchrezhdenie GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: d.scopintsev@iterrf.ru, i.semenov@iterrf.ru, s.portone@iterrf.ru, s.kuzminov@iterrf.ru, a.larionov@iterrf.ru

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Charge exchange recombination spectroscopy on T-10 tokamak

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Serov, S.V.; Tugarinov, S.N. (AO «GNTs RF TRINITI», Moscow, Troitsk (RU)); Klyuchnikov, L.A.; Krupin, V.A. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Multichannel data recording and collection system for ITER plasma diagnostics

S46;S70

Nikolaeva, D.V.; Zubarev, P.V.; Mironova, E.Yu.; Portone, S.S.; Semenov, I.B. (ChU GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)); Tolokonskij, A.O. (NIYaU MIFI, Moscow (RU)); Khil'chenko, A.D. (IYaF SO RAN im. G.I. Budkera, Novosibirsk (RU))

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Neutron physical calculations for diagnostic equipment on spectroscopy of hydrogen lines and impurities in equatorial ITER ports

S70

Afanasenko, R.S.; Alekseev, A.G. (NITs «Kurchatovskij Inst.», Moscow (RU); Koordinatsionnyj Tsentr «Upravlyaemyj Termoyadernyj Sintez - Mezhdunarodnye Proekty» (UTS-Tsentr), Moscow (RU)), e-mail: afanasenkorom@gmail.com; Borisov, A.A.; Kuteev, B.V. (NITs «Kurchatovskij Inst.», Moscow (RU))

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Development and tests of high-voltage frame insulation of external elements of ITER coil winding

S70

Bursikov, A.S.; Marushin, E.L.; Mednikov, A.A.; Rodin, I.Yu.; Safonov, A.V.; Stepanov, D.B. (Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskoy Apparatury im. D.V. Efremova, Sankt-Peterburg (RU)), e-mail: a.mednikov@list.ru

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Results of cyclic mechanical tests of sample of ITER PF1 coil shank

S70

Koval'chuk, O.A.; Litvinovich, A.V.; Marushin, E.L.; Mednikov, A.A.; Rodin, I.Yu.; Stepanov, D.B. (Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskoy Apparatury im. D.V. Efremova, Sankt-Peterburg (RU)), e-mail: stepanovdb@sintez.niiefa.spb.su

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Mirzoev, Eh.B.; Kobyalko, V.O. (Vserossijskij Nauchno-Issledovatel'skij Inst. Radiologii i Agroekologii FANO, Obninsk (RU)), e-mail: mirzoev.ed@yandex.ru

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Paramonova, T.A.; Machaeva, E.N. (Fakul'tet Pochvovedeniya Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU)); Belyaev, V.R. (Geograficheskij Fakul'tet Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: tapara@mail.ru, ekaterinamoc92@yandex.ru, valdemar_b@rambler.ru

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*Perevolotskij, A.N.; Krasovskaya, E.V.; Velikoborets, E.V. (Gomel'skij Gosudarstvennyj Univ.
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Rachkova, N.G.; Shuktomova, I.I. (Inst. Biologii Komi NTs UrO RAN, Syktyvkar (RU)), e-mail: rachkova@ib.komisc.ru

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Churyukin, R.S.; Geras'kin, S.A. (Vserossiyskij Nauchno-Issledovatel'skij Inst. Radiologii i Agroehkologii FANO, Obninsk (RU)), e-mail: r.churyukin@mail.ru

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Alekseev, A.G. (GNTs Inst. Fiziki Vysokikh Ehnergij, Protvino (RU)); Karpov, N.A. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU)), e-mail: alexeev@ihep.ru, nick.karpov@mail.ru

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Blokhin, P.A.; Vaneev, Yu.E.; Panchenko, S.V. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki RAN, Moscow (RU)), e-mail: blokhin@ibrae.ac.ru

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Kut'kov, V.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU))

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Mel'nik, N.A. (Inst. Khimii i Tekhnologii Redkikh Ehlementov i Mineral'nogo Syr'ya im. I.V.

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Popovichev, V.N.; Chmyr, V.D.; Plotitsyna, O.V. (Inst. Biologii Yuzhnykh Morej im. A.O. Kovalevskogo, Sevastopol' (RU)), e-mail: popovichev@ukr.net

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Dnestrovskij, Yu.N.; Danilov, A.V.; Dnestrovskij, A.Yu. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Dnestrovskiy_YN@nrcki.ru (and others)

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Korobejnikova, O.A.; Murakhtin, S.V. (Inst. Yadernoj Fiziki im. G.I. Budkepa Sibirskogo Otdeleniya RAN, Novosibirsk (RU)), e-mail: o.a.korobejnikova@inp.nsk.su

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Identification of mode structure of high-frequency perturbations in the TUMAN-3M tokamak

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Abdullina, G.I.; Askinazi, L.G.; Belokurov, A.A.; Zhubr, N.A.; Kornev, V.A.; Lebedev, S.V.; Razumenko, D.B.; Tukachinskij, A.S. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)), e-mail: Abdullina@mail.ioffe.ru

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ICR heating using magnetic beach method

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Megawatt electron beam for GDT device

S70

Soldatkina, E.I.; Astrelin, V.T.; Voskoboynikov, R.V.; Trunev, Yu.A. (Inst. Yadernoj Fiziki im. G.I. Budkera, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)), e-mail: e.i.soldatkina@inp.nsk.su; Bagryanskij, P.A.; Ivanov, A.A.; Shul'zhenko, G.I. (Inst. Yadernoj Fiziki im. G.I. Budkera, Novosibirsk (RU))

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High-power neutral beam injectors NB15-40 with tunable beam energy

S70

Dejchuli, P.P.; Ivanov, A.A.; Davydenko, V.I. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)), e-mail: pdeichuli@yandex.ru (and others)

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Studies of the effect of external perturbing electric fields on time evolution of plasma in the T-10 tokamak

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Grashin, S.A. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Grashin_SA@nrcki.ru; Drabinskij, M.A.; Khabanov, F.O. (NITs «Kurchatovskij Inst.», Moscow (RU); Moskovskij Fiziko-Tekhnicheskij Inst., Dolgoprudnyj (RU)); Mel'nikov, A.V.; Sergeev, N.S. (NITs «Kurchatovskij Inst.», Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU))

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Study of energy confinement in the Globus-M spherical tokamak

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Diagnosics of plasma effective charge at the Globus-M2 tokamak

S70

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Effect of massive gas injection on transport processes in plasma of the T-10 tokamak

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Ambipolar transport in the gas discharge plasma structure

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Creation of three-dimensional dust structures and clusters in glow discharge in strong magnetic field

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Karasev, V.Yu.; Dzlieva, E.S.; Pavlov, S.I.; Novikov, L.A.; Tarasov, S.A. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)), e-mail: plasmadust@yandex.ru

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Properties of dust structure and plasma trap in the narrowing region of glow discharge current channel in the magnetic field

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Butris, M.; Ionikh, Yu.Z.; Kalinin, S.A.; Matveev, R.M. (SPbGU, Sankt-Peterburg (RU)), e-mail: y.ionikh@spbu.ru; Dyatko, N.A. (GNTs RF TRINITI, Troitsk, Moscow (RU)), e-mail: dyatko@triniti.ru

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Temperature and kinetic energy distributions of single-charged ions of heavy noble gases in current sheets

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Kirij, N.P.; Frank, A.G.; Voronova, E.V. (Inst. Obshchej Fiziki im. A.M. Prokhorova, Moscow (RU)), e-mail: kyrie@fpl.gpi.ru

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Gordeev, A.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: alexandergordeev@yandex.ru

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*Gordeev, A.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail:
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Study of N₂ vibrational distribution in pure nitrogen plasma at intermediate pressures (10-100 Torr) using absorption spectroscopy

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Volynets, A.V.; Lopaev, D.V.; Popov, N.A. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: volynets.sinp.msu@gmail.com

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Nazarov, V.V.; Malyshev, M.S.; Kostrov, A.V. (*Federal'noe Gosudarstvennoe Byudzhetnoe Nauchnoe Uchrezhdenie «Federal'nyj Issledovatel'skij Tsentr Inst. Prikladnoj Fiziki Rossijskoj Akademii Nauk», Nizhnij Novgorod (RU)*), e-mail: nazar@appl.sci-nnov.ru

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Barkalov, K.E.; Barkalov, E.E.; Panasenkov, A.A. (*NITs «Kurchatovskij Inst.», Moscow (RU)*), e-mail: Barkalov_KE@nrcki.ru

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Sirotkin, N.A.; Titov, V.A. (Inst. Khimii Rastvorov im. G.A. Krestova RAN, Ivanovo (RU)), e-mail: alexsad8@yandex.ru; Ignat'ev, O.I. (Ivanovskij Gosudarstvennyj Khimiko-Tekhnologicheskij Univ., Ivanovo (RU))

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Milanich, A.I. (Inst. Obshchej Fiziki im. A.M. Prokhorova Rossijskoj Akademii Nauk, Moscow (RU); MFTI - Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Dolgoprudnyj (RU)); Tsipenyuk, D.Yu. (Inst. Obshchej Fiziki im. A.M. Prokhorova Rossijskoj Akademii Nauk, Moscow (RU)); Voropinov, A.V. (OOO «Lazer Grafik», Moscow (RU)), e-mail: tsip@kapella.gpi.ru, iphiton@mail.ru, avv@lasergraphicart.com

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Chebakova, V.Yu. (FGAOU VO K(P)FU, Kazan' (RU), e-mail: vchebakova@mail.ru

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THEORETICAL DATA

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Podturova, O.I.; Skovoroda, A.A.; Sorokina, E.A. (NITs «Kurchatovskij Inst.», Moscow (RU); Rossijskij Univ. Druzhyby Narodov, Moscow (RU)), e-mail: olga_podturova@list.ru

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**One-dimensional modeling of microwave discharge in liquid n-heptane with
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Kazakov, E.D.; Demidov, B.A.; Dolgachev, G.I. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Kazakov_ED@nrcki.ru (and others)

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*Moralev, I.A.; Selivonin, I.V.; Tatarenkova, D.I. (Ob''edinennyj Inst. Vysokikh Temperatur RAN,
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*Kasatov, A.A.; Vasil'ev, A.A.; Vyacheslavov, L.N.; Popov, V.A.; Cherepanov, D.E.; Shoshin,
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Kupriyanov, I.B.; Nikolaev, G.N.; Bazaleev, E.V.; Porezanov, N.V.; Kurbatova, L.A. (AO «VNIINM», Moscow (RU)); Podkovyrov, V.L.; Muzychenko, A.D.; Zhitlukhin, A.M. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU)); Safronov, V.M. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii ROSATOM «Proektnyj Tsentr ITEhR», Moscow (RU)); Giniyatulin, R.N. (Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskoy Apparatury im. D.V. Efremova, Sankt-Peterburg (RU))

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Krasil'nikov, A.V.; Artem'ev, K.K.; Rodionov, N.B.; Amosov, V.N.; Meshchaninov, S.A.; Rodionova, V.P. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii ROSATOM «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: k.artemev@iterrf.ru; Dravin, V.A. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)), e-mail: valeridravin@yandex.ru

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Sdvizhenskij, P.A.; Levashova, M.G.; Zhogolev, V.E.; Leonov, V.M.; Konovalov, S.V. (NITs «Kurchatovskij Inst.», Moscow (RU)), e-mail: Sdvizgenskii_PA@nrcki.ru; Kukushkin, A.B.; Lisitsa, V.S. (NITs «Kurchatovskij Inst.», Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU))

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Life cycle of a part: from virtual to real tokamak

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Aleksandrov, E.V.; Beteev, S.G.; Rakhmanov, A.Yu.; Smirnov, P.V. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)); Ivanov, D.A. (Natsional'nyj Issledovatel'skij Univ. «MEhI», Moscow (RU)); Semashkin, D.Yu. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)); Natsional'nyj Issledovatel'skij Univ. «MEhI», Moscow (RU)), e-mail: d.semashkin@iterrf.ru

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Shoshin, A.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)); Burdakov, A.V.; Ivantsivskij, M.V.; Klimenko, M.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)); Polosatkin, S.V. (Inst. Yadernoj Fiziki

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Sulyaev, Yu.S.; Sharafeeva, S.R.; Zemlyanskij, Yu.N. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU)), e-mail: Yu.S.Sulyaev@inp.nsk.su (and others)

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Demonstration of testing results of the cooling jacket of detectors of the upper vertical neutron camera

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In situ research of tungsten surface modification under thermal shock by a powerful electron beam on the BETA facility

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Vasil'ev, A.A.; Vyacheslavov, L.N.; Kasatov, A.A.; Kurkuchekov, V.V.; Popov, V.A.; Cherepanov, D.E.; Shoshin, A.A. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)); Arakcheev, A.S.; Burdakov, A.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)); Kandaurov, I.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU))

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Verdiyan, A.S.; Bondarenko, A.V.; Serov, V.V.; Tugarinov, S.N. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: verdiyanartyom@gmail.com

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Project of data acquisition and control system for diagnostics «Active spectroscopy»

S70

Kudryavtsev, A.V.; Nagornyy, N.V.; Fedorov, V.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Moscow (RU)), e-mail: info@mephi.ru; Tugarinov, S.N.; Lopatko, V.B. (Chastnoe Uchrezhdenie GK «Rosatom» «ITEhR-Tsentr», Moscow (RU)), e-mail: support@iterrf.ru

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Study of the signal-to-noise ratio of refractometry in ITER under turbulent plasma with account for high temperature effects and vertical displacements of plasma column

S70

Vershkov, V.A.; Subbotin, G.F.; Shelukhin, D.A. (NITs «Kurchatovskij Inst.», Moscow (RU); Koordinatsionnyj Tsentr «Upravlyaemyj termoyadernyj sintez - mezhdunarodnye proekty», Moscow (RU)), e-mail: v.vershkov@fc.iterru.ru; Petrov, V.G.; Afonin, A.Yu.; Afonin, K.Yu. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Koordinatsionnyj Tsentr «Upravlyaemyj Termoyadernyj sintez - mezhdunarodnye proekty», Moscow (RU)), e-mail: vpetrov@triniti.ru; Skopintsev, D.A. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail:

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Issledovanie sootnosheniya signal/shum refraktometrii v ITEhR v usloviyakh turbulentnoj plazmy s uchetom vysokotemperaturnykh ehffektov i vertikal'nykh peremeshchenij plazmennogo shnura

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Method of similarity of the neutron field applied to the calculation of the activation of the vacuum components of the diagnostics «Reflectometer from the strong magnetic field side for ITER»

S70

Portnov, D.V.; Rodionov, R.N. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: d.portnov@iterrf.ru

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Portnov, D.V.; Rodionov, R.N. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: d.portnov@iterrf.ru

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Amosov, V.N.; Meshchaninov, S.A. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU)), e-mail: mesh@triniti.ru; Rodionov, N.B. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: rodionovnb@gmail.com

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Lidzhigoryaev, S.D. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Moscow (RU)); Kovalenko, D.V. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk,

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Transportation of the tokamak reactor vacuum vessel components

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Savrukhin, P.V. (NITs «Kurchatovskij Inst.», Moscow (RU); Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentri ITEhR», Moscow (RU)), e-mail: psavrukhin@bk.ru; Kuz'min, E.G.; Kedrov, I.V. (Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskoy Apparatury im. D.V. Efremova, Sankt-Peterburg (RU)); Shestakov, E.A. (NITs «Kurchatovskij Inst.», Moscow (RU)); Sidorenko, I.A.; Kirnev, G.S. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentri ITEhR», Moscow (RU))

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Kormilitsyn, T.M. (Moskovskij Fiziko-Tekhnicheskij Inst., Dolgoprudnyj, Moskovskaya Obl. (RU)); Kashchuk, Yu.A.; Portnov, D.V. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU))

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Surface and bulk damages of mockups of heat-resistant coating of the ITER divertor dome under heat plasma loads relevant to ITER ELMs and disruptions
S70

Kovalenko, D.V.; Podkovyrov, V.L.; Klimov, N.S.; Barsuk, V.A.; Yaroshevskaya, A.D. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU)); Safronov, V.M. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU)); Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU))

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Characteristics of detectors for the ITER diagnostics «Neutron spectrometer» of the neutral particles analyzer

S70

Kovalev, A.O.; Kormilitsyn, T.M.; Portnov, D.V.; Kashchuk, Yu.A. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR»,

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Justification for DNFM diagnostic measuring procedures on the example of the counting channel

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Kovalev, A.O.; Vorob'ev, V.A.; Portnov, D.V.; Dzhurik, A.S.; Kashchuk, Yu.A. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: A.Kovalev@iterrf.ru

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Accuracy of hydrogen isotope ratio measurements in the ITER scrape-off layer by H_#Greek Small Letter Alpha# diagnostics without optical dumps

S70

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Tochnost' izmereniya izotopnogo otnosheniya vodoroda v pristenochnoj plazme ITEhR diagnostikoj H_#Greek Small Letter Alpha# bez ispol'zovaniya opticheskikh lovushek

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Analysis of activation of the detector module of the DNFM diagnostics

S70

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Preliminary design of integration of ITER upper ports №02 and up №08

S70

Aleksandrov, E.V. (Chastnoe Uchrezhdenie GK «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: e.alexandrov@iterrf.ru; Burdakov, A.V. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)), e-mail: a.v.burdakov@inp.nsk.su; Buslakov, I.V. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU)) (and others)

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Prototype of the data acquisition system for DNFM detector module

S70

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Simulation of hydrogen optical diagnostics signals at the initial stage of discharge current ramp-up in the ITER pre-fusion operation phase

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Physical chemical properties of redeposited layers in the T-10 tokamak with graphite and tungsten limiters

S36;S70

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PLM-2 plasma device for full-scale tests of fusion reactor materials with stationary megawatt loads: project parameters

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S70

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Numerical simulation of electromagnetic loads on the modified designs of the Thomson diagnostics of the ITER lower port №8

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Testing of recording system components of the ITER vertical neutron camera diagnostics

S70

Golachev, V.M.; Mironova, E.Yu.; Nemtsev, G.E.; Portone, S.S.; Semenov, I.B. (Chastnoe Uchrezhdenie Gosudarstvennoj Korporatsii po Atomnoj Ehnergii «Rosatom» «Proektnyj Tsentr ITEhR», Moscow (RU)), e-mail: v.golachev@iterrf.ru

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Reconstruction of the energy distribution function of fast ions in tokamak plasma by gamma-spectrometry methods

S70

Il'yasova, M.V.; Shevelev, A.E.; Chugunov, I.N.; Khil'kevich, E.M.; Dojnikov, D.N.; Najdenov, V.O. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe RAN, Sankt-Peterburg (RU)), e-mail: margaritavadimovna@gmail.com

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The use of the generalized K-method for the multichannel measurement of plasma density

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PLASMA FILAMENT; REFRACTION; THEORETICAL DATA

Droplet and vapour erosion of tungsten under intensive plasma loads

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Larchenko, M.A.; Poznyak, I.M. (GNTs RF Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk, Moscow (RU); Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Dolgoprudnyj, Moskovskaya Obl. (RU))

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Bimetal joint of CuCrZr-316L for electrical strap pedestals in the ITER blanket S70

Cheburova, A.V.; Khomyakov, S.Eh.; Leshukov, A.Yu.; Sviridenko, M.N. (AO «Ordена Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotekhniki im. N.A. Dollezhalya», Moscow (RU)), e-mail: nikiet@nikiet.ru; Makhina, D.N.; Denisov, V.N. (OAO «KOMPOZIT», Korolev (RU))

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Experimental validation of working efficiency of first wall panel components

S70

Bardina, D.R.; Poddubnyj, I.I.; Tomilov, S.N.; Parshutin, E.V.; Tolkachev, D.V.; Leshukov, A.Yu.; Sviridenko, M.N. (AO «Ordена Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotehniki im. N.A. Dollezhalja», Moscow (RU)), e-mail: nikiet@nikiet.ru

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Experimental validation of working efficiency of the mechanical joint system of the enhanced heat flux panel of the first wall

S70

Tomilov, S.N.; Sviridenko, M.N.; Leshukov, A.Yu.; Poddubnyj, I.I.; Parshutin, E.V. (AO «Ordена Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotehniki im. N.A. Dollezhalja», Moscow (RU)), e-mail: Tomilov@nikiet.ru

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Mock up of the testing module of the blanket with ceramic breeder and liquid-metal coolant for bench tests

S70

Kozlov, S.A.; Sviridenko, M.N.; Leshukov, A.Yu.; Razmerov, A.V.; Khromov, A.A. (AO «NIKIEhT», Moscow (RU)), e-mail: nikiet@nikiet.ru

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Application of cellular automata in the control system of tokamak-reactor

S70

Kapralov, V.G.; Sedov, K.S.; Sharov, I.A. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU)), e-mail: v.kapralov@spbstu.ru

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Hybrid numerical model of diamagnetic plasma confinement in an axisymmetric mirror machine

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Vshivkov, V.A.; Dudnikova, G.I. (Inst. Vychislitel'noj Matematiki i Matematicheskoy Geofiziki SO RAN, Novosibirsk (RU)); Chernoshtanov, I.S. (Inst. Yadernoj Fiziki im. G.I. Budkera SO RAN, Novosibirsk (RU))

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Technique for thermographic measurements of candidate materials of the first wall for future fusion reactors developed on the KTM tokamak

S70

Chektybaev, B.Zh. (Gosudarstvennyj Univ. imeni Shakarima, Semej (KZ)); Batyrbekov, Eh.G. (Natsional'nyj Yadernyj Tsentr Respubliki Kazakhstan, Kurchatov (KZ)); Skakov, M.K. (Filial «Inst. Atomnoj Ehnergii» Respublikanskogo Gosudarstvennogo Predpriyatiya «Natsional'nyj Yadernyj Tsentr Respubliki Kazakhstan», Kurchatov (KZ))

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Technique for direct null field measurements in tokamak by means of three-dimensional Hall sensors

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Chektybaev, B.Zh. (Gosudarstvennyj Univ. imeni Shakarima, Semej (KZ)); Skakov, M.K. (Filial «Inst. Atomnoj Ehnergii» Respublikanskogo Gosudarstvennogo Predpriyatiya «Natsional'nyj Yadernyj Tsentri Respubliki Kazakhstan», Kurchatov (KZ))

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MAGNETIC FIELDS; ACCURACY

Observations of filaments in the TUMAN-3M tokamak

S70

Yashin, A.Yu.; Bulanin, V.V.; Petrov, A.V. (Sankt-Peterburgskij Politehnicheskij Univ. Petra Velikogo, Sankt-Peterburg (RU)); Askinazi, L.G.; Belokurov, A.A.; Zhubr, N.A.; Krikunov, S.V.; Kornev, V.A.; Lebedev, S.V.; Tukachinskij, A.S. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe RAN, Sankt-Peterburg (RU))

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Obnaruzhenie filamentov na tokamake TUMAN-3M

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320 p.

TUMAN DEVICES; PLASMA FILAMENT; H-MODE PLASMA CONFINEMENT; PLASMA DIAGNOSTICS; EDGE LOCALIZED MODES; ELECTRIC DISCHARGES; EXPERIMENT RESULTS

**Increase the information content of control of thermodynamic activity of oxygen
in heavy liquid metal coolants**

S21

Ivanov, K.D.; Niyazov, S.-A.S.; Cheporov, R.Yu. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sniyazov@ippe.ru

Povyshenie informativnosti kontrolya termodinamicheskoy aktivnosti kisloroda v tyazhelykh zhidkometallicheskih teplonositelyakh

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4 refs., 5 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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NUCLEAR POWER; COOLANTS; HEAVY METALS; THERMODYNAMIC ACTIVITY; SOLID ELECTROLYTES; OXYGEN; BISMUTH; LEAD

Issues of increasing the information content of control of the thermodynamic activity (TDA) of oxygen in heavy liquid metal coolants (HLMC) are discussed in the paper. It is shown that the methods used in the work for determining the numerical values of temperature dependences of the change of oxygen TDA in the HLMC allow to obtain additional information about the physical and chemical state of the coolant

В работе обсуждаются вопросы повышения информативности контроля термодинамической активности (ТДА) кислорода в тяжелых жидкометаллических теплоносителях. Показано, что влияние примеси железа на состояние теплоносителя характеризуется наличием области относительной нечувствительности температурной зависимости ТДА кислорода при высокой ТДА кислорода

Thermodynamic model solutions of Me-O

S21

Osipov, A.A.; Niyazov, S.-A.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: osipov@ippe.ru

Termodinamicheskaya model' rastvorov Me-O

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COOLANTS; HEAVY METALS; THERMODYNAMIC ACTIVITY; OXYGEN; NUCLEAR POWER; ENTHALPY

The work considers the thermodynamic model of Me-O dilute solutions, which establishes a relationship between the different forms of oxygen in a liquid metal and the magnitude of the thermodynamic activity of oxygen. It has been shown that the activity coefficient and oxygen activity in an infinitely Me-O dilute solution are determined by the total concentration of various forms containing one oxygen atom

В работе рассмотрена термодинамическая модель разбавленных растворов Me-O, устанавливающая связь между различными формами существования кислорода в жидком металле и величиной термодинамической активности кислорода. Показано, что коэффициент активности и активность кислорода в бесконечно разбавленном растворе Me-O определяется суммарной концентрацией всевозможных форм, содержащих один атом кислорода

Experimental installation for determination of fast changes in surface tension of liquid-metal coolants in the adsorption conditions from a gaseous medium

S36

Alchagirov, B.B.; Kyasova, O.Kh.; Kokov, Z.A. (FGBOU VO Kabardino-Balkarskij

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Ehksperimental'naya ustanovka dlya opredeleniya bystrykh izmenenij poverkhnostnogo natyazheniya zhidkometallicheskich teplonositelej v usloviyakh adsorbtsii iz gazovoj sredy

p. 25-34

(RU)

20 refs., 6 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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METALS; ALLOYS; ADSORPTION; SURFACE TENSION; MATHEMATICAL MODELS;
COMPUTER CODES

The paper describes an experimental setup developed and tested by the authors with a software package that made it possible to automate the processes of measuring, collecting and processing significant arrays of primary data on the temperature dependences of the surface tension of metals and their alloys in the liquid state

В работе описывается разработанная и испытанная авторами экспериментальная установка с программным комплексом, позволившая автоматизировать процессы измерения, сбора и обработки больших массивов первичных данных о температурных и концентрационных зависимостях поверхностного натяжения металлов и сплавов в жидком состоянии

Concentration dependence of the surface tension of tin-sodium system alloys.

State of research (overview)

S36

Alchagirov, B.B.; Kyasova, O.Kh. (FGBOU VO Kabardino-Balkarskij Gosudarstvennyj Univ. imeni Kh.M. Berbekova, Nal'chik (RU)), E-mail: oksikyas160993@gmail.com

Kontsentratsionnaya zavisimost' poverkhnostnogo natyazheniya splavov sistemy olovo - natrij. Sostoyanie issledovanij (obzor)

p. 35-44

(RU)

46 refs., 3 figs., 1 tab.

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METALS; ALLOYS; BINARY ALLOY SYSTEMS; REACTOR KINETICS; ADSORPTION;
TIN; SODIUM; MATHEMATICAL MODELS

The paper critically reviewed the results of theoretical and experimental studies of the surface tension of tin-sodium system alloys, including the original experimental data of the authors, available in the literature

В работе критически рассмотрены результаты имеющихся в литературе теоретических и экспериментальных исследований поверхностного натяжения сплавов системы олово - натрий, в том числе и оригинальные опытные данные авторов

Mixed convection heat transfer of liquid metal in the presence of magnetic fields

S21;S70

Belyaev, I.A.; Sardov, P.A.; Biryukov, D.A. (Ob''edinennyj Inst. Vysokikh Temperatur Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: bia@ihed.ras.ru; Pyatnitskaya, N.Yu.; Sviridov, E.V.; Sviridov, V.G. (Ob''edinennyj Inst. Vysokikh Temperatur Rossijskoj Akademii Nauk, Moscow (RU); Natsional'nyj Issledovatel'skij Univ. Moskovskij Ehnergeticheskij Inst., Moscow (RU));

Razuvanov, N.G. (Natsional'nyj Issledovatel'skij Univ. Moskovskij Ehnergeticheskij Inst., Moscow (RU))

Теплообмен при смешанной конвекции жидкого металла в присутствии магнитных полей
p. 45-53

(RU)

9 refs., 8 figs., 1 tab.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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NUCLEAR POWER; LIQUID METALS; HEAT TRANSFER; TOKAMAK TYPE REACTORS; CONVECTION; MAGNETIC FIELDS; REYNOLDS NUMBER; HARTMANN NUMBER

The work describes the experimental study of liquid metal mixed convection in a vertical pipe. The obtained experimental data are consistent with the results obtained at less powerful experimental facilities, and significantly expand the current understanding of the processes of heat transfer of magnetic hydrodynamics and the influence of thermogravitational convection

Работа посвящена экспериментальному исследованию особенностей смешанной конвекции жидкого металла в вертикальной трубе. Полученные экспериментальные данные согласуются с результатами, полученными на менее мощных экспериментальных установках, и значительно расширяют текущее понимание процессов теплопередачи магнитной гидродинамики и влияние термогравитационной конвекции

Influence of pipe inclination on non-stationary modes of the flow of a liquid metal affected by transverse magnetic field

S21

Chernysh, D.Yu.; Biryukov, D.A.; Luchinkin, N.A.; Belyaev, I.A. (Ob'edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), E-mail: ChernyshDY@gmail.com

Vliyaniye ugla naklona na razvitiye nestatsionarnykh rezhimov techeniya zhidkogo metalla v obogrevaemoj trube pod vozdejstviem magnitnogo polya

p. 54-62

(RU)

3 refs., 11 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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(Special Issue no.5)

NUCLEAR POWER; FAST REACTORS; LIQUID METALS; HYDRODYNAMICS; HEAT TRANSFER; HARTMANN NUMBER

The article describes an experimental study of heat transfer during the descending flow of a liquid metal (mercury) in a circular channel with uniform heating for different angles of inclination from the vertical under the action of a transverse magnetic field and without its impact

В статье описывается экспериментальное исследование теплообмена при опускном течении жидкого металла (ртуть) в круглом канале с однородным обогревом при разных

значениях тепловой нагрузки для различных углов наклона от вертикали при воздействии поперечного магнитного поля и без его влияния

Splitting mechanisms of superheated liquid metal droplets immersed in cold water

S42

Zeigarnik, Yu.A.; Ivochkin, Yu.P.; Kubrikov, K.G.; Teplyakov, I.O. (Ob''edinennyj Inst. Vysokikh Temperatur Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: ivochkin@yandex.ru
Mekhanizmy drobleniya peregretykh zhidkometallicheskich kapel', pogruzhennykh v kholodnuyu vodu

p. 63-72

(RU)

10 refs., 9 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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PHYSICS; AUTOHYDROLYSIS; BOILING; DROPLETS; HYDRODYNAMICS;
OSCILLATIONS

The results of an experimental study of the processes preceding and accompanying the destruction of the vapor films of a cooler (water not warmed to the boiling point) near hot solid and liquid metal samples with a spherical surface are presented. The main models of fragmentation of liquid metal droplets, based on thermal stresses, shock-acoustic effects and explosive boiling of water inside the melt, have been analyzed

В работе представлены результаты экспериментального исследования процессов, предшествующих и сопутствующих разрушению паровых пленок охладителя (вода, недогретая до температуры кипения) около горячих жидких и твердых металлических образцов со сферической поверхностью. Проанализированы основные модели фрагментации жидкометаллических капель, основанные на учете термических напряжений

Heating nonuniformity influence on the liquid metal flow characteristics in the presence of a magnetic field during mixed convection in a duct

S70

Belyaev, I.A.; Sviridov, V.G. (Ob''edinennyj Inst. Vysokikh Temperatur Rossijskoj Akademii Nauk, Moscow (RU); Natsional'nyj Issledovatel'skij Univ. Moskovskij Ehnergeticheskij Inst., Moscow (RU)), E-mail: bia@ihed.ras.ru; Razuvanov, N.G. (Ob''edinennyj Inst. Vysokikh Temperatur Rossijskoj Akademii Nauk, Moscow (RU)); Krasnov, D.S. (Tekhnicheskij Univ. Il'menau, Il'menau (DE))

Vliyanie neodnorodnosti obogreva na kharakteristiki techeniya zhidkogo metalla v prisutstvii magnitnogo polya pri vstrechnoj smeshannoj konveksii v pryamougol'nom kanale

p. 73-82

(RU)

13 refs., 8 figs., 1 tab.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty
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TOKAMAK TYPE REACTORS; LIQUID METALS; HEAT TRANSFER; CONVECTION;
MAGNETIC FIELDS; REYNOLDS NUMBER; HARTMANN NUMBER

The article presents the data summarizing experimental studies of the liquid metal down-flow in a duct under the influence of a transverse magnetic field applied along the long side of the duct. The configuration under consideration is close to the conditions of the blanket module of a tokamak-type thermonuclear reactor

В статье приводятся данные, обобщающие экспериментальные исследования опускного течения жидкого металла в прямоугольном канале под воздействием поперечного магнитного поля, приложенного вдоль длинной стороны канала. Рассматриваемая конфигурация имитирует условия бланкетного модуля термоядерного реактора типа токамак

Study of local velocity fields in the fuel assembly

S21

Zajtsev, D.V.; Churkin, A.N.; Ul'yanovskij, D.V.; Sergeev, S.G.; Tomkovid, B.G. (AO Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail:

zajtsev_dv@grpress.podolsk.ru

Issledovanie lokal'nykh polej skorostej v teplovydelyayushchej sborke

p. 83-95

(RU)

4 refs., 15 figs., 3 tabs.

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NUCLEAR POWER; FUEL ASSEMBLIES; FUEL ELEMENT CLUSTERS; GRIDS;
PRESSURE DROP; REYNOLDS NUMBER

Investigation of local velocity fields in a fuel assembly is described in the paper. The studies have been performed on the fuel assembly model representing a cross-section full-scale non-heated fragment of fuel rod bundle whose basic geometrical parameters in the cross-section are equivalent to TVS-2M bundle. The work was carried out at a small circuit of the OKB «GIDROPRESS» aerodynamic test bench

В данной работе описано исследование локальных полей скоростей в тепловыделяющей сборке. Исследования проводились на модели тепловыделяющей сборки (ТВС), представляющей собой полномасштабный в поперечном сечении необогреваемый фрагмент пучка ТВЭЛов, основные геометрические параметры которого в поперечном сечении эквивалентны пучку ТВС-2М. Работа выполнялась на малом контуре аэродинамического стенда ОКБ «ГИДРОПРЕСС»

Core temperature monitoring system for modern LMFBR

S21

Danilenko, V.P.; El'shina, N.V. (FGUP «Nauchno-Issledovatel'skij Tekhnologicheskij Inst. imeni A.P. Aleksandrova», Sosnovyj Bor (RU)), E-mail: DanI@niti.ru; Dvornikov, P.A.; Kovtun, S.N.; Kondratovich, F.V.; Kudryaev, A.A.; Luk'yanov, D.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU))

Sistema temperaturnogo kontrolya aktivnoj zony sovremennogo reaktora na bystrykh nejtronakh
p. 96-109

(RU)

3 refs., 19 figs.

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(Special Issue no.5)

FAST REACTORS; BELOYARSK-4 REACTOR; FUEL ASSEMBLIES; REACTOR CORES;
TEMPERATURE MONITORING; FLUCTUATIONS

The report presents a modern core temperature control system for the BN-800 being the part of reactor diagnostics system, as well as the results obtained during the operation of the system at the start-up and pilot operation stages of the power unit

В статье представлена современная система температурного контроля активной зоны в составе системы диагностирования активной зоны реактора БН-800, а также результаты, полученные при эксплуатации системы на этапах пуска и опытно-промышленной эксплуатации энергоблока

The settlement and experimental substantiation of the sodium system of control of tightness of fuel rod claddings of advanced commercial reactor

S21

Luk'yanov, D.A.; Albutova, O.I. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: dlukyanov@ippe.ru; Zverev, I.D.; Salyaev, A.V.; Fadeev, I.D.; Prokoptsov, I.S. (Aksionernoe Obshchestvo «Opytnoe Konstruktorskoe Byuro Mashinostroeniya imeni I.I. Afrikantova», Nizhnij Novgorod (RU)); Mikhajlenko, M.A.; Gur'ev, S.A. (Filial Aksionernogo Obshchestva «Kontsern Rosehnergoatom» «Beloyarskaya Atomnaya Stantsiya», Zarechnyj (RU))

Raschetno-ehksperimental'noe obosnovanie natrievoj sistemy kontrolya germetichnosti obolochek tvehlov perspektivnogo kommercheskogo reaktora

p. 110-118

(RU)

9 refs., 4 figs., 1 tab.

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NUCLEAR POWER; FAST REACTORS; REACTOR SAFETY; FUEL ELEMENTS; FUEL
RODS; FUEL-CLADDING INTERACTIONS; SODIUM

The article discusses the results of a computational and experimental study to substantiate the efficiency and effectiveness of the sodium control system for tightness of fuel rod cladding of an advanced commercial reactor, obtained on the basis of experience in the development and

operation of systems for purification of sodium coolant and control of the activity of cesium nuclides by sorption method

В статье обсуждаются результаты расчетно-экспериментального исследования по обоснованию работоспособности и эффективности натриевой системы контроля герметичности оболочек твэлов перспективного коммерческого реактора, полученные на основе опыта разработки и эксплуатации систем очистки натриевого теплоносителя и контроля активности нуклидов цезия сорбционным методом

Possible mechanism of thermal corium-sodium interaction at severe accidents

S21

Zagorul'ko, Yu.I.; Ganichev, N.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sodium@ippe.ru

О возможных механизмах термического взаимодействия кориума с натрием при тяжелых авариях

p. 119-125

(RU)

11 refs., 1 fig., 2 tabs.

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NUCLEAR POWER; FAST REACTORS; REACTOR SAFETY; FUEL ASSEMBLIES;
SEVERE ACCIDENTS; CORIUM; SODIUM

The article provides a detailed analysis and experimental verification of the possible mechanisms of thermal interaction under conditions of partial hardening of the ceramic component of the corium, its phase separation with the molten iron and thermal interaction of the molten iron with sodium in severe accidents at fast reactors

В статье дан детальный анализ и экспериментальная проверка возможных механизмов термического взаимодействия в условиях частичного отвердевания керамического компонента кориума, его фазового расслоения с расплавом железа и термического взаимодействия расплава железа с натрием при тяжелых авариях на быстрых реакторах

Experimental investigation of corium behavior at the boundary with reactor structural materials

S21

Zagorul'ko, Yu.I.; Ganichev, N.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sodium@ippe.ru

Экспериментальное исследование поведения кориума на границе его раздела с реакторными конструкционными материалами

p. 126-133

(RU)

1 ref., 4 figs., 5 tabs.

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FAST REACTORS; REACTOR SAFETY; BUILDING MATERIALS; DYNAMIC LOADS;
SEVERE ACCIDENTS; THERMITE PROCESS; CORIUM; SODIUM

Objectives and targets of the investigation, presented in the report consisted in study of structural materials wastage at their initial contact with corium simulator melt as well as physical and chemical properties of garnisage layer formed at the boundary of high-temperature melt with relatively cold wall. Information, obtained in the experiments can be used in scenarios of severe accidents and especially in analysis of corium traps integrity

Цели и задачи исследования заключались в изучении степени износа конструкционных материалов при их первоначальном контакте с расплавом имитаторов кориума и физико-химических свойств гарнисажного слоя, формирующегося на границе раздела высокотемпературного расплава. Полученная информация может быть использована при составлении сценариев развития процессов во внутриреакторных ловушках кориума в условиях тяжелых аварий с плавлением активной зоны

Investigation of graphite dissolution kinetics in sodium laminar flows

S21;S97

Zagorul'ko, Yu.I.; Ganichev, N.S.; Konovalov, M.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sodium@ippe.ru

Issledovanie kinetiki rastvoreniya grafita v laminarnykh potokakh natriya

p. 134-139

(RU)

9 refs., 2 figs., 3 tabs.

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FAST REACTORS; LAMINAR FLOW; DISSOLUTION; SODIUM; GRAPHITE;
MATHEMATICS; PRANDTL NUMBER

The article presents the results of experimental measurements of the graphite dissolution rate coefficients under conditions simulating the flow of a graphite layer by a laminar sodium stream. Variable parameters were the sodium temperature and the length of the soluble body at almost identical sodium flow rate through the experimental area

В статье представлены результаты экспериментальных измерений коэффициентов скорости растворения графита в условиях, моделирующих обтекания слоя графита ламинарным потоком натрия. Варьируемыми параметрами являлись температура натрия и длина растворяемого тела при практически одинаковых расходах натрия через экспериментальный участок

Elaboration of the method for taking into account non-homogeneous parameter distributions for Lyon-type integrals derivation of single- and two-phase flows

S21;S97

Kornienko, Yu.N. (AO Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail: kornienko_un@grpress.podolsk.ru

Razrabotka metoda ucheta neodnorodnykh raspredelenij parametrov odno- i dvukhfaznykh potokov pri vyvode integralov tipa Lajona

p. 140-154

(RU)

24 refs., 4 figs., 4 tabs.

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WWER TYPE REACTORS; REACTOR CORES; THERMAL HYDRAULICS; INTEGRALS; MATHEMATICAL SOLUTIONS; COMPUTER CODES; FROUDE NUMBER

The analytic derivation of generalized forms of Lyon-type integrals is presented in the paper for the required coefficients with reflection of the contribution of non-homogeneous distributions of variables. It shows the implementation of the correspondence principle for asymptotic transitions to previous theories and gives examples of the application of the proposed method, including the anomalous behavior of the friction and heat transfer coefficients

В работе представлен аналитический вывод обобщенных форм интегралов типа Лайона для искомых коэффициентов с отражением вклада неоднородных распределений переменных. Показано выполнение принципа соответствия при асимптотических переходах к предшествующим теориям и даны примеры применения предложенного метода

About possibility of using lead containing melts for the oil refining and steel industries

S02

Koshelev, M.M.; Ul'yanov, V.V.; Gulevskij, V.A.; Konovalov, M.A.; Kharchuk, S.E.

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O vozmozhnosti primeneniya svinetsosoderzhashikh rasplavov dlya neftepererabatyvayushchej i stalelitejnoj otraslej promyshlennosti

p. 155-159

(RU)

7 refs., 2 figs.

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(Special Issue no.5)

PETROLEUM; ENERGY SOURCES; OIL FIELDS; PETROLEUM INDUSTRY; PETROLEUM REFINERIES; PETROCHEMICAL PLANTS

The article refers to the use of a new design of a heat exchanger pipe with an annular gap filled with lead-containing melt, which ensures equalization of the polarity of the temperature of the oil and the heat exchange pipe. Thereby the problem of local coke production in furnaces of fire heating of oil can be solved

В статье говорится о применении новой конструкции теплообменной трубы с кольцевым зазором, заполненным свинцоводержащим расплавом, который способствует выравниванию поля температур на поверхности контакта нефти и теплообменной трубы. Тем самым может быть решена проблема локального коксообразования в печах огневого нагрева нефти и, следовательно, повышена эффективность и долговечность оборудования

Research of the effect of the conditions of liquid-metal pyrolysis of exhausted car tires on the composition and form of the received products

S37

Kharchuk, S.E.; Ul'yanov, V.V.; Gulevskij, V.A.; Koshelev, M.M. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: skharchuk@ippe.ru

Issledovanie vliyaniya uslovij zhidkometallicheskogo piroliza otrabotavshikh avtomobil'nykh shin na sostav i formu poluchaemykh produktov

p. 160-165

(RU)

3 refs., 1 fig., 4 tabs.

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CHEMISTRY; PYROLYSIS; PYROLYSIS PRODUCTS; TIRES; LEAD; BISMUTH; WASTE DISPOSAL

The paper describes the results of studies on the thermally oxygen-free decomposition of the polymer components of a car tire during its direct immersion into the molten liquid metal. The impact of the conditions of liquid metal pyrolysis of used automobile tires on the composition and form of the products obtained has been studied

В работе описаны результаты исследований по термическому бескислородному разложению полимерных составляющих автомобильной шины при ее непосредственном погружении в расплав жидкого металла. Проведено исследование влияния условий жидкometalлического пиrolиза отработавших автомобильных шин на состав и форму получаемых продуктов

Kinetics of process of removal of hydrogen in the oxygen-free gas environment by means of the granulated lead oxide

S21

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Kinetika protsessa udaleniya vodoroda s pomoshch'yu granulirovannogo oksida svintsya v beskislородной газовой среде

p. 166-175

(RU)

8 refs., 8 figs., 2 tabs.

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NUCLEAR FACILITIES; LIQUID METALS; COOLANTS; HYDROGEN; LEAD OXIDES;
KINETICS

This article describes the proposed method for removing hydrogen by metal oxides, and presents the methods and results of studies of the kinetics of the process of hydrogen removal using granular lead oxide

В настоящей статье описан предлагаемый метод удаления водорода оксидами металлов и представлены методики и результаты исследований кинетики процесса удаления водорода с помощью гранулированного оксида свинца

An influence of natural uranium and thorium impurity in construction materials and HLMC on the effectiveness of cladding failure detection

S21

Gonchar, N.I. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: nigon@ippe.ru

Vliyanie primesi urana i toriya v TZhMT i konstruktsionnykh materialakh aktivnoj zony na ehffektivnost' kontrolya germetichnosti obolochek tvehlov

p. 176-184

(RU)

8 refs., 6 figs., 1 tab.

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REACTOR SAFETY; FAILURES; LIQUID METALS; COOLANTS; GASEOUS WASTES;
DELAYED NEUTRONS

Using the example of calculations for an power reactor cooled by lead-bismuth coolant, the authors made an assessment of the impact of natural uranium and thorium impurities in the coolant and in the steel of the shells on the effectiveness of the control of the claddings' tightness of fuel elements

Авторы, на примере расчетов для энергетического реактора, охлаждаемого свинцово-висмутовым теплоносителем, сделали оценку влияния примеси природного урана и тория в теплоносителе и в стали оболочек на эффективность контроля герметичности оболочек ТВЭЛОВ

Calculation of the distribution local parameter adiabatic two-phase flow by ANSYS CFX

S21;S97

Stepanov, O.E.; Kornienko, Yu.N.; Galkin, I.Yu.; Pronin, A.A.; Bykov, M.A. (AO Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail:

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Raschet raspredelenij lokal'nykh parametrov adiabatnykh dvukhfaznykh potokov po kodu

ANSYS CFX

p. 185-195

(RU)

15 refs., 7 figs., 4 tabs.

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NUCLEAR POWER; WWER TYPE REACTORS; ADIABATIC PROCESSES;

CALCULATION METHODS; COMPUTER CODES; REYNOLDS NUMBER

An air-water flow in vertical cylindrical channel with Reynolds numbers 19000 and 38000 and void fraction from 0 to 33% are considered in the paper. Radial profiles of local void fraction and liquid velocities have been solved also as wall friction in bubble flow

В работе рассмотрено течение газожидкостного потока в вертикальном цилиндрическом канале при числах Рейнольдса 19000 и 38000 в диапазоне расходных объемных газосодержаний 0-33 %. Рассчитаны радиальные профили локальных газосодержаний и скорости жидкости, а также сопротивления трения для пузырьковых потоков

Lead containing melt: from coolant of advanced reactor facilities to innovative facilities for refining solid, liquid and gaseous raw material

S21

Ul'yanov, V.V.; Mel'nikov, V.P.; Askhadullin, R.Sh.; Gulevskij, V.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: vulyanov@ippe.ru

Svinetssoederzhashchie rasplavy: ot teplonositelej perspektivnykh reaktorov k innovatsionnym apparatam dlya pererabotki tverdogo, zhidkogo i gazoobraznogo syr'ya

p. 196-207

(RU)

11 refs., 5 figs., 1 tab.

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NUCLEAR POWER; FAST REACTORS; COOLANTS; LIQUID METALS; LEAD;

BISMUTH

Various aspects of using fusions fusible metals in the solution of technological tasks are considered in the paper. Essential advantages of reactors cooled by heavy liquid metal coolants in comparison with reactors with sodium or water coolants are noted. The issues of operation of lead-bismuth coolant in transport reactors are highlighted

В работе рассмотрены разнообразные аспекты применения расплавов легкоплавких металлов в решении технологических задач. Отмечены существенные преимущества реакторов, охлаждаемых тяжелыми жидкометаллическими теплоносителями, по сравнению с реакторами с натриевым или водяным теплоносителями. Освещены вопросы эксплуатации свинцово-висмутового теплоносителя в транспортных реакторах

Hydrodynamics similarity property of distributing header systems with various arrangement of liquid inlet into the header

S21

Del'nov, V.N. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: delnov@ippe.ru

Svojstvo podobiya gidrodinamiki razdayushchikh kollektornykh sistem s razlichnymi usloviyami podvoda zhidkosti v kollektor

p. 208-222

(RU)

25 refs., 5 figs.

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NUCLEAR FACILITIES; FAST REACTORS; HEAT EXCHANGERS; COOLANTS; LIQUID METALS; FLUID FLOW; HYDRODYNAMICS

The paper describes the distributing header systems (DHS). The purpose of this work is to validate the similarity of flow part hydrodynamics in axially symmetric DHS with various arrangement of liquid inlet into the header. The work also compares the hydrodynamics of flow parts in cylindrical and flat DHS with central liquid inlet and lateral outlet, as well as in cylindrical and flat DHS with lateral liquid inlet and central outlet

В статье рассматриваются раздающие коллекторные системы (РКС). Цель работы - обоснование подобия гидродинамики проточных частей осесимметричных РКС с различными условиями подвода жидкости в коллектор и отвода жидкости из него. Выполнено сопоставление гидродинамики проточных частей цилиндрической и плоской РКС с центральным подводом и боковым отводом жидкости, цилиндрической и плоской РКС с боковым подводом и центральным отводом жидкости

Study of heat transfer and hydrodynamics in water- and air-cooled heat exchangers of NPP safety systems with pressurized water reactors

S22

Balunov, B.F.; Lychakov, V.D.; Shcheglov, A.A.; Matyash, A.S.; Starukhina, K.S. (OAO «Nauchno-Proizvodstvennoe Ob"edinenie po Issledovaniyu i Proektirovaniyu Ehnergeticheskogo Oborudovaniya im. I.I. Polzunova», Sankt-Peterburg (RU)), E-mail: vitalyl@yandex.ru

Issledovanie teploobmena i gidrodinamiki v vodo- i vozdukhookhlazhdaemykh teploobmennikakh sistem bezopasnosti AEhS s vodookhlazhdaemyimi reaktorami

p. 223-238

(RU)

16 refs., 8 figs., 1 tab.

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NUCLEAR POWER; PWR TYPE REACTORS; REACTOR SAFETY; HEAT TRANSFER; HYDRODYNAMICS; AFTER-HEAT REMOVAL; ECCS

This paper discusses the water and air-cooled passive heat removal systems, used to ensure safety of the nuclear power plants. The paper also describes the use of recirculation cooling plants for reduction of the emergency pressure of the steam-air mixture under the containment shell

В настоящей работе рассматриваются водо- и воздухоохлаждаемые системы пассивного отвода тепла, применяемые для обеспечения безопасности АЭС. Также рассмотрено использование рециркуляционных охлаждающих установок для снижения аварийного давления паровоздушной смеси под защитной оболочкой

Equilibrium model of the dissociation of compounds

S22;S97

Osipov, A.A.; Ivanov, K.D.; Askhadullin, R.Sh. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: osipov@ippe.ru
Ravnovesnaya model' dissotsiatsii soedinenij

p. 239-251

(RU)

27 refs., 5 figs.

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NUCLEAR FACILITIES; COOLANTS; LIQUID METALS; DISSOCIATION; THERMAL EQUILIBRIUM; FREE ENTHALPY; MATHEMATICAL SOLUTIONS

This paper deals with the problem of dissociation of compounds in multicomponent systems. It is shown that the use of existing approaches is limited by the lack of data on the relationship of the isobaric-isothermal potential of the formation of compounds with their composition. A method for taking into account the impact of the composition of compounds on this parameter is proposed, it is based on an analysis of the available experimental data on stoichiometric compounds

Данная работа касается проблемы диссоциации соединений в многокомпонентных системах. Показано, что использование имеющихся подходов ограничено отсутствием данных о связи изобарно-изотермического потенциала образования соединений с их составом. Предложен способ учета влияния состава соединений на данный параметр, основанный на анализе имеющихся экспериментальных данных по стехиометрическим соединениям

The investigation of pipes made of 09G2S steel to obtain the characteristics necessary for assessing the strength, reliability and resource of the BREST-OD-300 reactor plant

S21

Logashov, S.Yu.; Orlov, A.S.; Gavrilov, E.V.; Khajmin, S.V. (Aksionernoe Obshchestvo «Nauchno-Proizvodstvennoe Ob"edinenie «Tsentral'nyj Nauchno-Issledovatel'skij Inst. Tekhnologii Mashinostroeniya», Moscow (RU)), E-mail: SULogashov@cniitmash.com

Issledovanie trub iz stali 09G2S dlya polucheniya kharakteristik, neobkhodimyx dlya otsenki

prochnosti, nadezhnosti i resursa reaktornoj ustanovki BREST-OD-300

p. 252-261

(RU)

8 refs., 8 figs., 6 tabs.

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FAST REACTORS; BREST-OD-300 REACTOR; STAINLESS STEELS; PIPES; WELDING;
MECHANICAL PROPERTIES; CREEP; DEFORMATION

The aim of the work was to obtain the missing data necessary to justify the design characteristics used in assessing the strength, reliability and service life of seamless hot-deformed pipes made of 09G2S steel and their welded joints, intended for the manufacture of structural elements of the BREST-OD-300 reactor vessel heating system

Целью работы являлось получение недостающих данных, необходимых для обоснования расчетных характеристик, используемых при оценке прочности, надежности и ресурса бесшовных горячедеформированных труб из стали марки 09Г2С и их сварных соединений, предназначенных для изготовления конструктивных элементов системы разогрева корпуса реактора реакторной установки БРЕСТ-ОД-300

The effect of gas bubbles on the erosion of steel in lead

S21

Alekseev, V.V. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: alexeev@ippe.ru; 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))

Vliyanie puzyr'kov gaza na ehroziyu stali v svintse

p. 5-14

(RU)

4 refs., 10 figs., 1 tab.

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(no.1)

NUCLEAR POWER; COOLANTS; LEAD OXIDES; STEELS; CORROSION; EROSION;
BUBBLES

The paper describes experimental studies and gives a theoretical calculation of the process of bubble cavitation in a lead coolant. Estimates are also given of the parameters of the heterogeneous system in which cavitation damage to the oxide coating occurs on the surface of the steel in a lead stream

В работе описаны экспериментальные исследования и дан расчетно-теоретический анализ процесса пузырьковой кавитации в свинцовом теплоносителе. Также даны оценки параметров гетерогенной системы, при которых происходит кавитационное повреждение оксидного покрытия на поверхности стали в потоке свинца

The prospects of heavy liquid metal coolants using in high-power intense heat exchangers

S21;S97

Koshelev, M.M.; Ul'yanov, V.V.; Kononov, M.A.; Gulevskij, V.A.; Kharchuk, S.E. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: mkoshelev@ippe.ru

Perspektivy ispol'zovaniya tyazhelykh zhidkometallicheskich teplonositelej v vysokoehnergonapryazhennykh teploobmennykh apparatakh

p. 15-20

(RU)

3 refs., 4 figs., 1 tab.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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(no.1)

COOLANTS; LIQUID METALS; FURNACES; COMPUTER CODES; SIMULATION; MATHEMATICAL SOLUTIONS; PRANDTL NUMBER

The authors have proposed the design of a heat-exchange pipe, in comparison with the traditional pipe of a fire-heating furnace, it has significant advantages. It can reduce the coke formation in fire heaters of oil products, increase the energy intensity and reliability of the equipment by aligning the temperature fields along the cross section of the heat exchange pipe and avoid local overheating of oil products

Авторами предложена конструкция теплообменной трубы, по сравнению с традиционной трубой печи огневого нагрева она обладает существенными преимуществами. Она может позволить снизить коксообразование в печах огневого нагрева нефтепродуктов, повысить энергонапряженность и надежность работы оборудования за счет выравнивания температурных полей по сечению теплообменной трубы и избежания локального перегрева нефтепродуктов

Experimental simulation of hydrodynamics and heat transfer processes in reactors with heavy liquid metal coolants

S21;S97

Sorokin, A.P.; Kuzina, Yu.A.; Orlov, A.I. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sorokin@ippe.ru

Ehksperimental'noe modelirovanie protsessov gidrodinamiki i teploobmena v reaktorakh s tyazhelymi zhidkometallicheskimi teplonositelyami

p. 21-36

(RU)

62 refs., 4 figs., 1 tab.

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FAST REACTORS; LIQUID METALS; HYDRODYNAMICS; HEAT TRANSFER; MATHEMATICAL MODELS; SIMULATION; NAVIER-STOKES EQUATIONS

The paper describes the experimental simulation of hydrodynamics and heat transfer processes in reactors with heavy liquid metal coolants. Experimental thermophysical studies carried out using the theory of physical simulation of hydrodynamics and heat transfer in liquid metals made it possible to obtain data not only on physics, but also on the characteristics of thermophysical processes in the fuel assemblies and equipment components of such reactors

В работе описано экспериментальное моделирование процессов гидродинамики и теплообмена в реакторах с тяжелыми жидкометаллическими теплоносителями. Проведенные с использованием теории физического моделирования гидродинамики и теплообмена в жидких металлах экспериментальные теплофизические исследования позволили получить данные не только по физике, но и характеристикам теплофизических процессов в тепловыделяющих сборках и узлах оборудования таких реакторов

Lead containing coolants in perspective technologies of solid, liquid and gaseous raw materials processing

S21

Ul'yanov, V.V.; Askhadullin, R.Sh.; Mel'nikov, V.P.; Gulevskij, V.A.; Koshelev, M.M.; Storozhenko, A.N. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: vulyanov@ippe.ru

Svinetssoederzhashchie teplonositeli v perspektivnykh tekhnologiyakh pererabotki tverdogo, zhidkogo i gazoobraznogo syr'ya

p. 52-66

(RU)

13 refs., 9 figs., 3 tabs.

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(no.1)

FAST REACTORS; REACTOR COOLING SYSTEMS; COOLANTS; LIQUID METALS; OXIDES; PYROLYSIS

The possibilities of innovative use of fusions of fusible metals in the solution of hi-tech tasks are considered in the paper. The main actions for control and maintenance of quality of heavy liquid metal coolant in reactor installations and research stands of the Russian Federation taking into account operating experience of the lead-bismuth coolant in transport reactors are described

В работе рассмотрены возможности инновационного применения расплавов легкоплавких металлов в решении высокотехнологичных задач. Обоснованы основные мероприятия по контролю и поддержанию качества тяжелых жидкометаллических теплоносителей в реакторных установках и исследовательских стендах Российской Федерации с учетом опыта эксплуатации свинцово-висмутового теплоносителя в транспортных реакторах

Facility Gesa-4m for electron beam modification of fuel cladding surfaces of reactor plants with heavy liquid metal coolant

S21

Ehngel'ko, V.I.; Pavlov, E.P.; Tkachenko, K.I.; Shchegolikhin, N.P. (AO «Nauchno-Issledovatel'skij Inst. Ehlektrofizicheskoy Apparatury imeni D.V. Efremova», Sankt-Peterburg

(RU)), E-mail: ktkachenko@mit.niiefa.spb.su

Ustanovka Geza-4m dlya ehlektronno-puchkovoj modifikatsii poverkhnosti obolochek tvehlov
RU s TZhMT

p. 67-74

(RU)

8 refs., 8 figs., 1 tab.

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NUCLEAR FACILITIES; COOLANTS; FUEL ELEMENTS; HEAVY METALS; FUEL-
CLADDING INTERACTIONS; ELECTRON BEAMS

The paper presents a description of experimental facility for practical realization of modification process of fuel element cladding surface, having radially converging pulse intense electron beams with the electron source. The authors describe the results of the first stage of experimental researches of the operation of this source. The ways to increase the parameters of electron beam facility are also defined

В статье представлено описание опытной установки для практической реализации процесса модификации поверхности оболочек твэлов радиально сходящимися сильноточными импульсными электронными пучками. Представлены результаты первой стадии экспериментальных исследований работы источника. Показаны пути увеличения параметров электронно-пучковой установки

Equilibrium potentials of lead oxide (II) in an equimolar mixture of KCl-PbCl₂ **S37**

Pershin, P.S.; Batukhtin, V.P.; Tkacheva, O.Yu.; Arkhipov, P.A.; Zajkov, Yu.P. (Inst. Vysokotemperaturnoj Ehlektrokhimii, Ural'skoe Otdelenie Rossijskoj Akademii Nauk, Ekaterinburg (RU)), E-mail: paffka19@yandex.ru

Ravnovesnye potentsialy oksida svintsa (II) v ehkvimol'nom rasplave KCl-PbCl₂

p. 75-86

(RU)

17 refs., 7 figs., 5 tabs.

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METALS; ALLOYS; LEAD OXIDES; CHLORIDES; POTASSIUM CHLORIDES;
THERMODYNAMIC ACTIVITY; RAMAN SPECTROSCOPY

The work shows how the equilibrium potentials of lead in the melt (KCl-PbCl₂)+PbO are measured by the electromotive force method, depending on the concentration of PbO at temperatures of 776, 821, and 874 K relative to the solid electrolyte oxygen reference electrode. Moderate negative deviations of the activity of PbO in dilute solutions of equimolar KCl-PbCl₂ from the laws of ideal solutions have also been established

В работе показано, как методом электродвижущей силы измерены равновесные потенциалы свинца в расплаве (KCl-PbCl₂)+PbO в зависимости от концентрации PbO при температурах 776, 821 и 874 К относительно твердоэлектролитного кислородного

электрода сравнения. Установлены умеренные отрицательные отклонения активности PbO в разбавленных растворах KCl-PbCl₂ эквимольного состава от законов идеальных растворов

Application of HLMC in the technology of metal radioactive waste processing **S12**

Voronin, I.A.; Mel'nikov, V.P.; Yagodkin, I.V.; Posazhennikov, A.M.; Legkikh, A.Yu.; Nikolaev, A.N. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: ivoronin@ippe.ru

Primenenie TZhMT v tekhnologii pererabotki metallicheskih radioaktivnykh otkhodov
p. 87-95

(RU)

15 refs., 3 figs., 4 tabs.

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(no.1)

NONRADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE PROCESSING;
SOLID WASTES; AEROSOLS; ELECTROSTATIC PRECIPITATORS; PURIFICATION

The paper considers gas purification systems at industrial enterprises and based on their analysis, and also taking into account the specifics of the work, a gas purification system was developed that includes several elements: precipitant, dilution sections, preliminary and high-efficiency filters. The application of a technology for processing metal radioactive waste is described

В работе рассмотрены системы очистки газов на промышленных предприятиях и на основании их анализа, а также с учетом специфики работ разработана система газоочистки, включающая в себя несколько элементов: осадитель, участки разбавления, фильтры предварительной и высокоэффективной очистки. Описано применение технологии переработки металлических радиоактивных отходов

Impact of the reference electrode design on the metrological characteristics of solid electrolyte oxygen sensors in gases **S21**

Shelemet'ev, V.M.; Ivanov, I.I.; Askhadullin, R.Sh.; Storozhenko, A.N.; Kuzin, P.V. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: iivanov@ippe.ru

Vliyanie konstruktivnogo ispolneniya ehlektroda sravneniya na metrologicheskie kharakteristiki tverdoehlektrolitnogo datchika kislорода v gaze

p. 96-116

(RU)

36 refs., 17 figs., 6 tabs.

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(no.1)

NUCLEAR POWER; COOLANTS; LIQUID METALS; SOLID ELECTROLYTES;
MOLYBDENUM OXIDES; BISMUTH OXIDES

The article is devoted to the internal construction of solid-electrolyte oxygen sensors in gases, namely: a liquid-metal reference electrode and an electrical lead. The results of comparative tests of solid-electrolyte oxygen sensors in gases with molybdenum electrical leads, with electrical leads based on lead and bismuth oxides, and steel are presented

Статья посвящена внутреннему устройству твердоэлектролитных датчиков кислорода в газах, а именно: жидкометаллическому электроду сравнения и потенциалосъемному выводу. Представлены результаты сравнительных испытаний твердоэлектролитных датчиков кислорода в газах с молибденовым потенциалосъемным выводом, с потенциалосъемниками на основе оксидов свинца и висмута, а также стали

Interaction of materials of the separator of hydrogen with sodium and impurity in it

S21

Solomatin, A.E.; Sorokin, A.P.; Zasorin, I.I.; Zagrebaev, S.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: solomaex@mail.ru; Orlova, E.A.; Orlov, A.V.; Belozherov, V.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Obninsk (RU))

Vzaimodejstvie materialov separatora vodoroda s natriem i primesyami v nem

p. 117-123

(RU)

5 refs., 7 figs.

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(no.1)

FAST REACTORS; WWER TYPE REACTORS; SODIUM COOLED REACTORS;
HYDROGEN; HYDROGEN PRODUCTION; SEPARATION PROCESSES

The work is devoted to the study of materials (zirconium and nickel) for the separation of hydrogen in its production using an atomic reactor in relation to the developed high-temperature fast sodium reactor for the production of hydrogen from hydrocarbon raw materials

Работа посвящена исследованию материалов (циркония и никеля) для сепарации водорода при его производстве с использованием атомного реактора применительно к разрабатываемому высокотемпературному быстрому натриевому реактору для производства водорода из углеводородного сырья

Influence of oxygen in sodium on permeability of sodium in steel

S37

Orlova, E.A.; Orlov, A.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. «MIFI», Obninsk (RU)); Solomatin, E.A.; Zasorin, I.I. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: solomaex@mail.ru
Vliyanie kisloroda v natrii na pronitsaemost' natriya v stal'

p. 124-131

(RU)

7 refs., 8 figs.

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METALS; STEELS; SODIUM; CHROMATES; CORROSION; LIQUID METALS

Penetration of sodium into steel leads to damage of structural material in the presence of chemical reaction with formation of ferro-chromates of sodium and is defined by oxygen level in sodium of existence of these compounds. It is shown that the distilled sodium gets in steels at 923 and 1023 K to for 500 h on depth less than 2 microns, i.e. it is occluded in blankets and has no significant effect on properties of steel

Проникновение натрия в сталь приводит к повреждению конструкционного материала при наличии химической реакции с образованием ферро-хроматов натрия и определяется уровнем кислорода в натрии существования этих соединений. Показано, что дистиллированный натрий проникает в стали при 923 и 1023 К за 500 ч на глубину менее 2 мкм, т.е. сорбируется в поверхностных слоях и не оказывает существенного влияния на свойства стали

An experimental study of the thermohydraulics of a twisted steam-generating channel heated by a lead coolant in longitudinal and transverse flow

S21

Grabezhnaya, V.A.; Mikheev, A.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: gva@ippe.ru
Ehksperimental'noe issledovanie teplogidravliki vitogo parogeneriruyushchego kanala, obogrevaemogo svintsovym teplonositelem pri prodol'nom i poperechnom techenii

p. 132-141

(RU)

12 refs., 10 figs.

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(no.1)

NUCLEAR POWER; FAST REACTORS; BREST-OD-300 REACTOR; STEAM GENERATORS; HEAT EXCHANGER METHOD; COOLANTS

The work provides a comparative analysis of some test results obtained on the models of steam generators of the BREST-OD-300 reactor installation under consideration, which differ in the way heat is supplied to the steam generating pipe. Analysis of the test results of two models of the steam generator, which differ in the method of lead flow around the heat exchanger tubes, showed a significant efficiency of the transverse flow around the pipes in comparison with the longitudinal flow

В настоящей работе дается сравнительный анализ некоторых результатов испытаний, полученных на рассматриваемых моделях парогенераторов реакторной установки БРЕСТ-ОД-300, различающихся способом подвода тепла к парогенерирующей трубе. Анализ результатов испытаний двух моделей парогенератора, отличающихся способом обтекания

теплообменных труб свинцовым теплоносителем, показал существенную эффективность поперечного обтекания труб по сравнению с продольным обтеканием

Estimating the change of a mass exchanger productivity on account of oxygen resource decreasing

S21;S97

Askhadullin, R.Sh.; Legkikh, A.Yu. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: alegkikh@ippe.ru

Raschetnaya otsenka izmeneniya proizvoditel'nosti massoobmennogo apparata za schet raskhodovaniya zapasa kisloroda

p. 142-160

(RU)

6 refs., 7 figs.

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(no.1)

NUCLEAR FACILITIES; COOLANTS; HEAVY METALS; OXYGEN; MATHEMATICAL MODELS; NUMERICAL SOLUTION

The paper gives a calculated estimate of the change in productivity of the mass transfer apparatus due to the consumption of oxygen. It is shown that the most promising method for introducing dissolved oxygen into the coolant is the solid-phase method based on the use of the process of dissolving solid-phase lead oxide placed in the coolant flow

В работе дана расчетная оценка изменения производительности массообменного аппарата за счет расходования запаса кислорода. Показано, что наиболее перспективным методом ввода растворенного в теплоноситель кислорода является твердофазный метод, основанный на использовании процесса растворения твердофазного оксида свинца, помещаемого в поток теплоносителя

The results of the study of the initial stage of oxidation of austenitic steel 12Cr18Ni10T in water vapor

S37

Ivanov, K.D.; Niyazov, S.-A.S.; Gurbich, A.F. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sniyazov@ippe.ru

Rezultaty issledovaniya nachal'nogo ehtapa okisleniya austenitnoj stali 12Kh18N10T v vodyanom pare

p. 161-169

(RU)

13 refs., 6 figs.

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(no.1)

METALS; AUSTENITIC STEELS; CORROSION; COOLANTS; HEAVY METALS; OXIDATION; WATER VAPOR

The paper presents the results of the study of the initial stage of oxidation of austenitic steel 12Cr18Ni10T in water vapor, which were obtained using a method of research of thin surface layers of steel, based on the analysis of nuclear reaction products in the interaction of oxygen with accelerated ion beams

В работе представлены результаты исследования начального этапа окисления аустенитной стали 12Х18Н10Т в водяном паре, которые были получены с использованием методики исследований тонких поверхностных слоев стали, основанной на анализе продуктов ядерных реакций при взаимодействии кислорода с ускоренными ионными пучками

Reactor roof design optimization based on results of numerical analysis at design stage

S21;S97

Vilenskij, O.Yu.; Lapshin, D.A.; Novinskij, Eh.G.; Rusinov, N.S. (Aksionernoe Obshchestvo «Opytnoe Konstruktorskoe Byuro Mashinostroeniya imeni I.I. Afrikantova», Nizhnij Novgorod (RU)), E-mail: okbm@okbm.nnov.ru

Optimizatsiya konstruktivnogo ispolneniya perekrytiya nadreaktornogo po rezul'tatam chislennogo issledovaniya na stadii proektirovaniya

p. 170-183

(RU)

19 refs., 13 figs., 1 tab.

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(no.1)

REACTORS; MECHANICAL STRUCTURES; REACTOR SAFETY; MATHEMATICS;
NUMERICAL ANALYSIS; NUMERICAL SOLUTION; COMPUTER CODES

The paper presents basic results of analysis of deformation process and estimation of pipe mockup falling on a reactor roof. Mathematical analysis was made using a verified model of the behavior of a structural material used in the reactor roof, which was built based on the results of experimental studies under compression and tension conditions at various deformation rates and temperatures

В работе представлены основные результаты анализа процесса деформирования и оценка последствий падения макета трубы на перекрытие надреакторное (ПН). Математический анализ выполнен с применением верифицированной модели поведения конструкционного материала, использованного в ПН, построенной по результатам экспериментальных исследований в условиях сжатия и растяжения при различных скоростях деформации и температурах

Time dependence of delayed neutrons and 6-, 8-group representation for the thermal and fast fission of ^{235}U , ^{238}U and ^{239}Pu

S73

Piksajkin, V.M.; Egorov, A.S.; Gremyachkin, D.E.; Mitrofanov, K.V. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: dgremyachkin@ippe.ru

Vremennaya zavisimost' aktivnosti zapazdyvayushchikh nejtronov i gruppovye parametry v 6- i 8-gruppovom predstavlenii pri delenii ^{235}U , ^{238}U i ^{239}Pu teplovymi i bystryimi nejtronami
p. 184-214

(RU)

3 refs., 17 tabs.

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(no.1)

NUCLEAR PHYSICS; DELAYED NEUTRONS; FAST NEUTRONS; THERMAL NEUTRONS; URANIUM 235; URANIUM 238; PLUTONIUM 239

In the present work the digital data on decay curves of delayed neutron intensity, measured for the fission of ^{235}U , ^{238}U and ^{239}Pu by thermal and fast neutrons, is presented. The estimation of time parameters of delayed neutrons in 6 and 8 groups representation have been made on the base of individual experimental series using iterative least squares technique

В работе представлена численная информация о кривых спада интенсивности потока запаздывающих нейтронов, измеренных при делении ^{235}U , ^{238}U и ^{239}Pu тепловыми и быстрыми нейтронами. Приведена оценка временных параметров запаздывающих нейтронов в 6- и 8-групповом представлении, выполненная на основе отдельных серий измерений с помощью итерационного метода наименьших квадратов

On the issue of accumulation and reactor utilization of americium in the nuclear power

S12;S21

Dekusar, V.M.; Zrodnikov, A.V.; Eliseev, V.A.; Moseev, A.L. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: amoseev@ippe.ru

K voprosu nakopleniya i reaktornoj utilizatsii ameritsiya v yadernoj ehnergetike

p. 215-223

(RU)

7 refs., 3 figs., 1 tab.

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RADIOACTIVE WASTE MANAGEMENT; SPENT FUELS; AMERICIUM 241; PLUTONIUM 241; SPENT FUEL STORAGE; THERMAL REACTORS; BN-1200 REACTOR

Based on the considered nuclear power systems, and taking into account their structural organization and development scenarios, the paper provides quantitative estimates and analysis of the accumulation of americium in the Russian nuclear power industry in the near future, and describes approaches to its disposal. Two alternative scenarios for the development of nuclear energy are considered. The numerical results of comparison, the analysis of the accumulation of americium with a perspective up to 2050 are presented

В работе на основе рассмотренных систем ядерной энергетики с учетом их структурной организации и сценариев развития приведены количественные оценки и анализ накопления америция в ядерной энергетике России в ближайшей перспективе и дано

описание подходов к его утилизации. Рассмотрены два альтернативных сценария развития ядерной энергетики. Представлены численные результаты сравнения, анализ накопления америция с перспективой до 2050 года

On combined burning rate of liquid sodium stream and pool

S21

Bondarenko, A.I.; Savin, M.M.; Supotnitskaya, O.V.; Yantseva, L.M. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: sov@ippe.ru

O skorosti sovmestnogo gorenija strui i luzhi zhidkogo natriya

p. 224-229

(RU)

11 refs., 4 figs., 1 tab.

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NUCLEAR FACILITIES; REACTOR SAFETY; SODIUM; FIRE HAZARDS; FIRE FIGHTING; MATHEMATICAL MODELS

The physical and mathematical model for estimation a combined burning rate of the freely falling liquid sodium stream and the pool formed under it is proposed in this paper. The model is based on the laws of energy and mass conservation, the empiric correlations for burning rate of stream and pool sodium and assumption that pool depth cannot be less than equilibrium

В настоящей работе предложена физико-математическая модель для оценки скорости совместного горения свободно льющейся вниз струи жидкого натрия и образующейся под ней лужи. Модель основана на законах сохранения энергии и массы, на эмпирических зависимостях скоростей горения натрия в струе и в луже, и на предположении о том, что глубина лужи не может быть меньше равновесной

Calculation of neutrons source based on electron accelerators in geant4

S73;S97

Belousov, A.V. (Fizicheskij Fakul'tet MGU imeni M.V. Lomonosova, Moscow (RU)), E-mail: ivkate@yandex.ru; Zheltonozhskaya, M.V.; Lykova, E.N.; Chernyaev, A.P. (Fizicheskij Fakul'tet MGU imeni M.V. Lomonosova, Moscow (RU)); Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)); Krusanov, G.A. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU))

Modelirovanie istochnika nejtronov na osnove uskoritelej ehlektronov v geant4

p. 230-237

(RU)

25 refs., 2 figs., 1 tab.

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NEUTRON SOURCES; ACCELERATORS; PHOTONS; MATHEMATICAL MODELS; MASS NUMBER; COMPUTER CODES

The purpose of this work was the simulation of the 30 to 140 MeV electron beam transport through a tungsten target with the geant4 program code. In addition, the neutrons yield produced in the target from the electron beam was studied. The geant4 computer code correctly describes the neutron photoproduction process during the primary electron beam interactions with a tungsten target

Целью настоящей работы является моделирование транспорта пучка электронов с энергией от 30 до 140 МэВ в программном коде geant4 через вольфрамовую мишень и исследование выхода нейтронов, образовавшихся в мишени от энергии пучка электронов. Программный код geant4 корректно описывает процессы фоторождения нейтронов при взаимодействии первичного пучка электронов с вольфрамовой мишенью

Review of experimental programs on research of fusion of elements of fast reactors cores components in accidental conditions

S22;S97

Zhdanov, V.S.; Pribaturin, N.A.; Usov, Eh.V. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki, Novosibirskij Filial, Novosibirsk (RU)), E-mail: usovev@gmail.com; Mosunova, N.A.; Strizhov, V.F (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki, Moscow (RU))
Obzor ehksperimental'nykh programm po issledovaniyu plavleniya ehlementov aktivnykh zon bystrykh reaktorov v avarijnykh usloviyakh

p. 238-249

(RU)

27 refs., 3 figs.

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NUCLEAR POWER PLANTS; FAST REACTORS; REACTOR SAFETY; REACTOR ACCIDENTS; REACTOR CORES; REACTOR ACCIDENT SIMULATION; COMPUTER CODES

The analysis of the published experimental data on modelling of accidental situations with destruction and melting of core components of fast neutrons reactors with liquid metal coolant is presented in the paper. In-pile and out-of-pile experiments, results of measurements of parameters of experiments and post-experimental researches are considered

В работе приведен анализ опубликованных экспериментальных данных по моделированию аварийных ситуаций с разрушением и плавлением элементов активных зон реакторов на быстрых нейтронах с жидкометаллическим теплоносителем. Рассмотрены реакторные и нереакторные эксперименты, результаты измерений параметров экспериментов и постэкспериментальных исследований

Calculation of the parameters of stochastic neutron kinetics in zero power nuclear reactors

S73;S97

Zemskov, E.A.; Mel'nikov, K.G.; Tormyshev, I.V. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: zemskov@ippe.ru

Raschet parametrov stokhasticheskoy kinetiki nejtronov v yadernom reaktore nulevoj moshchnosti
p. 250-262

(RU)

18 refs., 4 figs., 4 tabs.

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NEUTRONS; PROMPT NEUTRONS; DELAYED NEUTRONS; COMPUTER CODES;
BOLTZMANN EQUATION; FOKKER-PLANCK EQUATION; MARKOV PROCESS;
GODIVA REACTOR

The paper presents two computational algorithms for point reactor model, which are developed on the basis of the theory of Markov branching random processes. On the basis of these algorithms, programs have been created that allow calculating various scenarios for introducing reactivity and an external source into the system

В статье представлены два расчетных алгоритма в модели точечного реактора, которые разработаны на основе теории марковских ветвящихся случайных процессов. На основе этих алгоритмов созданы программы, позволяющие рассчитывать различные сценарии введения в систему реактивности и внешнего источника

Modeling of detailed nuclear data at arbitrary temperature in neutron calculations for Monte Carlo code

S21;S97

Koshcheev, V.N.; Peregudov, A.A.; Rozhikhin, E.V.; Semenov, M.Yu.; Yakunin, A.A.

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Modelirovanie detal'nykh yadernykh dannykh pri proizvol'noj temperature v nejtronno-fizicheskikh raschetakh dlya kodov Monte-Karlo

p. 263-272

(RU)

12 refs., 4 figs., 5 tabs.

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NUCLEAR FACILITIES; COMPUTERIZED SIMULATION; COMPUTER CODES;
CALCULATION METHODS; MONTE CARLO METHOD; SIMULATION

The paper presents a simulation of detailed nuclear data at an arbitrary temperature in neutron-physical calculations for Monte Carlo codes. The identity of the results obtained for different programs using prepared nuclear data is also shown

В работе представлено моделирование детальных ядерных данных при произвольной температуре в нейтронно-физических расчетах для кодов Монте-Карло. Показана идентичность полученных результатов по разным программам с использованием подготовленных ядерных данных

Comparison between computer simulations and experimental data for carbon ion ranges in homogeneous phantoms using the RTS&T particle and ion transport code system

S97

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Sравnitel'nyj analiz rezul'tatov chislennogo modelirovaniya i ehksperimental'nykh dannyx dlya probegov ionov ugleroda v gomogennykh fantomakh s ispol'zovaniem kompleksa RTS&T
p. 5-19

(RU)

34 refs., 14 figs., 2 tabs.

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COMPUTERIZED SIMULATION; MONTE CARLO METHOD; BRAGG CURVE;
COMPUTER CODES; PARTICLE INTERACTIONS; MATHEMATICAL MODELS

In this paper a results of computer simulation are compared with experimental data for carbon ion carbon ion ranges in homogeneous phantoms using the RTS&T, FLUKA and MCNPX Monte Carlo multi-particle particle and ion transport code systems

В настоящей работе приведены результаты сравнительного анализа теоретических (полученных на основе статистического моделирования в рамках программных комплексов RTS&T, FLUKA и MCNPX) и экспериментальных данных для пробега ионов углерода в гомогенных фантомах

Benchmarking methods for modern neutronic code

S21;S97

Mitenkova, E.F.; Novikov, N.V.; Solov'eva, E.V. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: mit@ibrae.ac.ru
Benchmarking dlya sovremennykh nejtronno-fizicheskikh kodov

p. 20-30

(RU)

15 refs., 8 figs., 5 tabs.

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NUCLEAR POWER; BN-350 REACTOR; RUNGE-KUTTA METHOD; DIFFERENTIAL EQUATIONS; NUMERICAL ANALYSIS; COMPUTER CODES; BENCHMARKS

Authors consider the problem of benchmarking for nuclide kinetics problems when using the full element basis of fission products yields. The Computational Experiment is used to simulate the experiment with uranium sample irradiation in BN-350 reactor under conditions of incomplete description of the Physical Experiment

В работе рассматривается проблема бенчмаркинга на примере решения задач нуклидной кинетики на полном базисе элементов выхода продуктов деления. Вычислительный Эксперимент применяется для обчета эксперимента по облучению уранового образца в реакторе БН-350 в условиях неполного описания Физического Эксперимента

Fission matrix in TDMCC code for loosely coupled systems calculation

S97

Semenova, T.V. (Rossijskij Federal'nyj Yadernyj Tsentr Vserossijskij NII Ehksperimental'noj Fiziki, Sarov (RU)); Mitenkova, E.F.; Solov'eva, E.V. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: mit@ibrae.ac.ru

Matritsa deleniya v programme TDMCC dlya rascheta slabosvyaznykh sistem

p. 31-37

(RU)

11 refs., 3 figs., 4 tabs.

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CALCULATION METHODS; MONTE CARLO METHOD; COMPUTER CODES; FISSION RATIO; NUCLEAR MATRIX; NEUTRON SOURCES

The paper describes a method employed in the TDMCC code, based on the fission matrix, which allows calculating the criticality to obtain the correct neutron distribution in weakly-coupled systems. This method can be useful in optimizing calculations based on Monte Carlo methods that provide reliable results in an acceptable amount of time

В работе описан метод, реализованный в программе TDMCC, базирующийся на матрице деления, который позволяет в расчетах на критичность получать корректные распределения нейтронов в слабосвязных системах. Этот метод может быть полезен при оптимизации расчетов на основе методов Монте-Карло, обеспечивающих достоверные результаты за приемлемое время

Estimation of reproduction fission isotopes for nuclear reactor in blanket thermonuclear reactor

S21;S97

Moryakov, A.V.; Zinchenko, A.S.; Tsibul'skij, V.F.; Davidenko, V.D.; Chukbar, B.K. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail:

Moryakov_AV@nrcki.ru

Otsenka vozmozhnosti narabotki delyashchikhsya izotopov dlya reaktorov deleniya v blanket

termoyadernogo reaktora

p. 38-48

(RU)

9 refs., 9 figs., 5 tabs.

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NUCLEAR POWER; THERMONUCLEAR REACTORS; MATHEMATICAL MODELS;
COMPUTERIZED SIMULATION; MONTE CARLO METHOD; APPROXIMATIONS;
COMPUTER CODES

In this paper, the evaluation calculations are performed, the purpose of which is to assess the possibility of using a thermonuclear plant for producing fissile isotopes in the blanket for their further use in fission reactors

В работе выполнены оценочные расчеты, целью которых является оценка возможности использования термоядерной установки для наработки делящихся изотопов в blankets для дальнейшего их использования в реакторах деления

Not stationary BSS-6 diffusion test in transport interpretation

S73;S97

Boyarinov, V.F.; Davidenko, V.D.; Moryakov, A.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: Boyarinov_VF@nrcki.ru

Transportnyj variant nestatsionarnogo diffuzionnogo testa BSS-6

p. 49-63

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NEUTRON PHYSICS; NEUTRON FLUX; DELAYED NEUTRONS; HARMONICS; MONTE
CARLO METHOD; NEUTRON DIFFUSION EQUATION; COMPUTER CODES

The paper considers non-stationary models of the one-dimensional BSS-6 test, which has shown differences in the spatial-energy profiles of neutron fluxes and power associated with the use of various methods using different boundary conditions (diffusion and kinetic)

В работе рассмотрены нестационарные модели одномерного теста BSS-6, показавшие расхождения пространственно-энергетических профилей потоков нейтронов и мощности, связанные с применением различных методов, использующих различные граничные условия (диффузионного и кинетического)

Comparison of homogeneous and heterogeneous use of energy plutonium in VVER

S21

Tsibul'skij, S.V. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)), E-mail: Tsibulskiy_SV@nrcki.ru

Sravnenie gomogenного i geterogenного ispol'zovaniya ehnergeticheskogo plutoniya v VVEhR
p. 64-67

(RU)

8 refs., 2 figs.

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NUCLEAR POWER; WWER TYPE REACTORS; PLUTONIUM; FUEL ASSEMBLIES;
DEPLETED URANIUM; MIXED OXIDE FUELS; FISSILE MATERIALS

The separate placement of fissile isotopes in the fuel load allows the transition to a closed fuel cycle in nuclear power. For this purpose, it is proposed to consider the formation of a heterogeneous fuel pellet, in which the fissile and raw isotopes are separate and not mixed together

Раздельное размещение делящихся изотопов в топливной загрузке позволяет переходить к замкнутому топливному циклу в атомной энергетике. Для этого в работе предлагается рассмотреть формирование гетерогенной топливной таблетки, в которой делящийся и сырьевой изотоп находятся отдельно и не смешаны между собой

Using the technique of temperature-proportional concentration for calculating models of fast reactor

S22;S97

Koshcheev, V.N.; Peregudov, A.A.; Rozhikhin, E.V.; Semenov, M.Yu.; Yakunin, A.A.

(Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: koscheev@ippe.ru

Ispol'zovanie metodiki temperaturno-proporsional'nykh kontsentratsij dlya rascheta modelej bystrykh reaktornykh ustanovok

p. 68-76

(RU)

19 refs., 4 figs., 2 tabs.

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NUCLEAR POWER; FAST REACTORS; DOPPLER EFFECT; CALCULATION METHODS;
COMPUTERIZED SIMULATION; COMPUTER CODES

Four test models of large fast reactors are considered in this paper, which are representative enough to justify the reliability of the findings of the work performed. The results of the criticality and the Doppler Effect calculations are given. Differences of calculated values are analyzed depending on the method of nuclear data preparation

В работе рассмотрены четыре тестовые модели быстрых реакторов, которые являются представительными для обоснования достоверности выводов выполненной работы. Приводятся результаты расчета критичности и величины эффекта Доплера.

Анализируются отличия расчетных величин в зависимости от способа подготовки ядерных данных

BNcode - improved code for scientific support of existing BN reactors

S21

Peregudov, A.A.; Kryachko, M.V.; Koshcheev, V.N.; Maslov, P.A.; Tormyshev, I.V.; Semenov, M.Yu.; Kunts'o, G.A.; Gurskaya, O.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: aperegudov@ippe.ru; Ivanov, A.A.; Erpalov, P.A. (AO «Kontsern Rosehnergoatom» «Beloyarskaya Atomnaya Stantsiya», Zarechnyj (RU))

BNcode - usovershenstvovannyj kod dlya nauchnogo soprovozhdeniya dejstvuyushchikh reaktorov BN

p. 77-86

(RU)

16 refs., 5 figs.

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NUCLEAR POWER; FAST REACTORS; BELOYARSK-4 REACTOR; BN-1200 REACTOR; THERMAL HYDRAULICS; CALCULATION METHODS; COMPUTER CODES

The work shows that the analysis of the results obtained in the course of the scientific support of the BN-800 reactor using the BNcode computer program permits in the future not only to eliminate the differences between calculating the criticality of the cold and hot state of the reactor, but also to perform a painless (while maintaining the stated calculated accuracy) transition of the BN-800 reactor to a full-scale load with mixed oxides fuel

В работе показано, что анализ полученных результатов по научному сопровождению реактора БН-800 по программе BNcode дает основания в дальнейшем не только устранить имеющиеся расхождения между расчетом критичности холодного и горячего состояния реактора, но и выполнить безболезненный (с сохранением заявленных расчетных точностей) переход реактора БН-800 на полномасштабную загрузку МОХ-топливом

Export potential of Russian fast reactors and technologies of the closed nuclear fuel cycle

S21;S29

Gulevich, A.V.; Dekusar, V.M.; Klinov, D.A.; Chebeskov, A.N. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: chebes@ippe.ru

Ehksportnyj potentsial rossijskikh bystrykh reaktorov i tekhnologij zamknutogo yadernogo toplivnogo tsikla

p. 87-97

(RU)

8 refs., 2 tabs.

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NUCLEAR POWER; WWER TYPE REACTORS; FAST REACTORS; CLOSED FUEL CYCLE; SPENT FUELS; EXPORTS

Russia is a recognized world leader in the development of fast reactor technology and a closed nuclear fuel cycle. The technology of fast sodium reactors has been successfully demonstrated and entered the commercialization phase. The paper considers options for entering the international markets in the near term of Russian technologies of fast reactors and a closed nuclear fuel cycle as the main export product of the Russian nuclear power industry

Россия является признанным мировым лидером в разработке технологий быстрых реакторов и замкнутого ядерного топливного цикла. Технология быстрых натриевых реакторов успешно продемонстрирована и вступила в этап коммерциализации. В работе рассматриваются варианты выхода на международные рынки в ближнесрочной перспективе российских технологий быстрых реакторов и замкнутого ядерного топливного цикла в качестве главного экспортного продукта российской ядерно-энергетической отрасли

The main results of the design limits justification for the SVBR-100 reactor fuel rod cladding material

S22

Petrochenko, V.V.; Grigor'ev, S.A.; Dedul', A.V.; Komlev, O.G.; Kondaurov, A.V. (AO «AKMEh-Inzhiniring», Moscow (RU)), E-mail: A.Dedul@svbr.org

Osnovnye rezul'taty obosnovaniya proektnykh predelov dlya materiala obolochek tvehlov RU SVBR-100

p. 98-106

(RU)

6 refs., 5 figs., 2 tabs.

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NUCLEAR FACILITIES; FAST REACTORS; FUEL ASSEMBLIES; REACTOR CORES; COOLANTS; CLADDING; FERRITIC STEELS

The paper presents the main results of the analysis of fuel rod claddings loading conditions under normal operation, in violation of normal operating conditions and in conditions of hypothetical emergency overheating. It is concluded that the main mechanisms of damage to equipment and core elements in emergency and pre-emergency situations are associated with the degradation of strength properties with increasing temperature

В работе представлены основные результаты анализа условий нагружения оболочек твэлов в нормальных условиях, при нарушениях нормальных условий эксплуатации и в условиях гипотетических аварийных перегревов. Сделан вывод о том, что основные механизмы повреждения оборудования и элементов активной зоны в аварийных и предаварийных ситуациях связаны с деградацией прочностных свойств при повышении температуры

Boiling water reactor with tight lattice of fuel rods - direct-circuit water-cooled fast reactor

S21

Pivovarov, V.A. (Federal'noe Byudzhethnoe Uchrezhdenie «Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti», Moscow (RU)), E-mail: pivovarov@secnrs.ru

Kipyashchij reaktor s tesnoj reshetkoj tvehlov - odnokonturnyj vodookhlazhdaemyj bystryj reaktor

p. 107-116

(RU)

4 refs., 8 figs., 7 tabs.

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NUCLEAR FACILITIES; FAST REACTORS; FUEL RODS; REACTOR CORES; MIXED OXIDE FUELS; URANIUM; THORIUM

The authors have proposed an original concept of the boiling water reactor core with the reduced moderation of neutron, in which a negative void reactivity effect is provided not by increase leakage of neutrons in the axial direction, but by an another physical principle

В работе предложена оригинальная концепция активной зоны кипящего реактора с уменьшенным замедлением нейтронов, в которой отрицательный пустотный эффект реактивности обеспечивается не за счет повышенной утечки нейтронов в аксиальном направлении, а за счет иного физического принципа

The solution to the problem of the spent fuel of thermal reactors in a two-component system of atomic energy

S21

Kagramanyan, V.S.; Chebeskov, A.N.; Dekusar, V.M.; Gurskaya, O.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: chebes@ippe.ru

Reshenie problemy OYaT teplovykh reaktorov v dvukhkomponentnoj sisteme atomnoj ehnergetiki

p. 117-126

(RU)

10 refs., 6 figs.

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NUCLEAR POWER; THERMAL REACTORS; FAST REACTORS; SPENT FUEL ELEMENTS; MIXED OXIDE FUELS; CLOSED FUEL CYCLE; BREEDING RATIO

This paper presents the schematic diagrams of a two-component nuclear power system, it also briefly describes the main tasks and prospects for their implementation in time

В настоящей статье представлены принципиальные схемы моделей организации двухкомпонентной ядерно-энергетической системы, кратко описаны их основные задачи и перспективы реализации во времени

About the requirements and recommendations of the regulatory body to error estimation of neutronics calculations

S21;S97

Popykin, A.I.; Zhylmaganbetov, N.M.; Smirnova, A.A. (Federal'noe Byudzhethnoe Uchrezhdenie «Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti», Moscow (RU)), E-mail: zhylmaganbetov@secnrs.ru

O trebovaniyakh i rekomendatsiyakh reguliruyushchego organa k opredeleniyu pogreshnosti nejtronno-fizicheskogo rascheta

p. 127-135

(RU)

12 refs.

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NUCLEAR POWER; REACTOR SAFETY; RADIATION PROTECTION; QUALITY CONTROL; CALCULATION METHODS; COMPUTER CODES

The article discusses the issues of determining the error of neutron-physical calculation taking into account its specificity, the features of the code implementation of various calculation methods and the requirements of regulatory documents in the field of atomic energy

В статье рассматриваются вопросы определения погрешности нейтронно-физического расчета с учетом его специфики, особенностей программной реализации различных расчетных методик и требований федеральных норм и правил в области использования атомной энергии

The first in the world reactor with lead-bismuth coolant (facility 27/VT). How that started

S22

Toshinskij, G.I. (AO «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU); OAO «AKMEh-Inzhiniring», Obninsk (RU)), E-mail: toshinsky@ippe.ru

Pervyj v mire reaktor s teplonositelem svinets-vismut (stend 27/VT). Kak vse nachinalos'

p. 136-150

(RU)

8 refs., 2 figs.

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NUCLEAR FACILITIES; FAST REACTORS; NUCLEAR SHIPS; REACTOR CORES; COOLANTS; BISMUTH; LEAD

The article discusses the reasons for choosing a lead-bismuth eutectic alloy as a coolant, the main scientific and technical problems solved during the development of lead-bismuth coolant reactor plants, including the problem of coolant technology and corrosion resistance of steels

В статье рассматриваются причины выбора в качестве теплоносителя эвтектического сплава свинец-висмут, основные научно-технические проблемы, решенные в ходе освоения реакторных установок со свинцово-висмутовым теплоносителем, в том числе, проблема технологии теплоносителя и коррозионной стойкости сталей

Correction of inverse point kinetics equations for measurement reactivity in the prompt-jump approximation

S97

Abramov, B.D. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: abramov@ippe.ru

Korreksiya uravnenij obratnoj tochechnoj kinetiki dlya izmereniya reaktivnosti v priblizhenii mgnovennogo skachka

p. 151-159

(RU)

12 refs.

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MATHEMATICAL MODELS; CALCULATION METHODS; CAUCHY PROBLEM;
REACTOR KINETICS EQUATIONS; APPROXIMATIONS; REACTIVITY

The authors consider methods for calculating the reactivity of a nuclear reactor from the measured dependence of the neutron flux in the reactor on time, based on the use of the inverse point kinetics equations, which relate the values of reactivity and neutron flux in the reactor

В работе рассматриваются методы вычисления реактивности ядерного реактора по измеряемой зависимости потока нейтронов в реакторе от времени, базирующиеся на использовании уравнений обратной точечной кинетики, связывающих между собой значения реактивности и потока нейтронов в реакторе

VVER reactor safety assessment in RIA type accidents during power grid regulating regimes

S21

Uvakin, M.A.; Makhin, I.V.; Sotskov, E.V. (Aksionernoe Obshchestvo Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail: uvakin_ma@grpress.podolsk.ru

Provedenie analizov bezopasnosti RU VVEhR v reaktivnostnykh avariyaх s uchetom regulirovaniya chastoty ehnergoseti

p. 160-169

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8 refs., 12 figs., 1 tab.

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NUCLEAR POWER; WWER TYPE REACTORS; REACTOR SAFETY; REACTOR ACCIDENTS; RISK ASSESSMENT; MATHEMATICAL MODELS

The paper considers the technique by which it is possible to carry out safety analyzes of VVER-type reactors, taking into account normal operation modes with a change in external load. Testing the model, which is the basis of the technique, allows us to conclude on its practical application

В работе рассматривается методика, при помощи которой можно выполнять анализы безопасности реакторов ВВЭР с учетом проведения режимов нормальной эксплуатации с изменением внешней нагрузки. Апробация модели, положенной в основу методики, позволяет сделать заключение о ее практическом применении

Analysis of VVER reactivity in accident with uncontrolled withdrawal group of control and protection system control rods at minimal possible initial neutron flux

S21

Nikolaev, A.L.; Uvakin, M.A. (Aksionernoe Obshchestvo Opytnoe Konstruktorskoe Byuro «GIDROPRESS», Podol'sk (RU)), E-mail: voncho94@yandex.ru

Issledovanie reaktivnosti VVEhR v rezhime s nekontroliruemym izvlecheniem gruppy OR SUZ pri minimal'no vozmozhnom nachal'nom potoke nejtronov

p. 170-179

(RU)

4 refs., 14 figs., 2 tabs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

ISSN 2414-1038

(2019)

(no.2)

NUCLEAR FACILITIES; WWER TYPE REACTORS; REACTOR SAFETY; RADIATION ACCIDENTS; CONTROL ELEMENTS; NEUTRON FLUX; COMPUTER CODES

The numerical simulation of accident with uncontrolled withdrawal of the most efficient group of control and protection system control rods at the initial states of power levels less than minimum controlled power level is described in the paper. All calculations have been done for VVER reactor plant in the framework of the AES-2006 project

В данной работе было проведено расчетное моделирование аварии с неконтролируемым извлечением наиболее эффективной управляющей группы органов регулирования системы управления и защиты на значениях уровней мощности меньших минимально контролируемого уровня. Все расчеты были выполнены для реакторной установки ВВЭР проекта АЭС-2006

Upgrading of core design software

S97

Adeev, V.A. (Kol'skaya AEhS, Polyarnye Zori (RU)), E-mail: adeevam@yandex.ru

Modernizatsiya programmogo obespecheniya dlya vybora toplivnykh zagruzok
p. 180-188
(RU)

5 refs., 12 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

ISSN 2414-1038

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(no.2)

CALCULATION METHODS; COMPUTERIZED SIMULATION; COMPUTER CODES;
NEURAL NETWORKS; GENETIC ALGORITHMS; REACTOR FUELING

The paper describes the developed VVER fuel load optimization program using evolutionary strategies and genetic algorithms. The program can be used in the design of fuel cycles and the choice of fuel loads at nuclear power plants

В работе описана разработанная программа оптимизации топливной загрузки ВВЭР с использованием эволюционных стратегий и генетических алгоритмов. Программа может применяться при проектировании топливных циклов и выбора топливных загрузок на АЭС

Studies of the potential of a two-component nuclear energy system in different conditions of its development

S21

Moseev, A.L.; Dekusar, V.M.; Korobejnikov, V.V.; Eliseev, V.A. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: amoseev@ippe.ru

Issledovaniya potentsiala dvukhkomponentnoj sistemy YaEh v raznykh usloviyakh ee razvitiya
p. 189-205

(RU)

16 refs., 7 figs., 1 tab.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

ISSN 2414-1038

(2019)

(no.2)

NUCLEAR ENERGY; FAST REACTORS; SODIUM COOLED REACTORS; BN-1200 REACTOR; CLOSED FUEL CYCLE; MIXED OXIDE FUELS; COMPUTER CODES

Nuclear power systems with different structural organization of generating capacities and a closed nuclear fuel cycle are considered in the paper. A comparison is made of these systems in terms of their development potential, ratio between the number of thermal and fast reactors and the possibilities of fuel supply. The results of simulation of fuel cycle scenarios for the considered two-component nuclear energy system are presented

В работе рассматриваются системы ядерной энергетики с различной структурной организацией генерирующих мощностей и замкнутым ядерным топливным циклом. Производится сравнение этих систем по потенциалу развития, соотношению между количеством тепловых и быстрых реакторов и возможностям топливообеспечения. Представлены результаты моделирования сценариев топливного цикла для рассматриваемых двухкомпонентных систем ядерной энергетики

The analysis of nuclear safety at treatment of MBIR reactor fuel

S21

Fraaz, E.S.; Malkov, A.P. (AO «Gosudarstvennyj Nauchnyj Tsentr - Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)), E-mail: rik-fes@pub.niiar.ru

Analiz yadernoj bezopasnosti pri obrashchenii s toplivom reaktora MBIR

p. 206-214

(RU)

5 refs., 9 figs.

Voprosy Atomnoj Nauki i Tekhniki. Seriya: Yaderno-Reaktornye Konstanty

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(2019)

(no.2)

NUCLEAR FACILITIES; REACTOR SAFETY; FAST REACTORS; RESEARCH AND TEST REACTORS; DRY STORAGE; COMPUTER CODES

The paper presents the main results of neutron-physical calculations of storage facilities for non-irradiated and spent fuel of the MBIR reactor, transport and technological equipment and radiation protection chambers. The analysis was performed in full compliance with the requirements of state regulatory documents on nuclear safety of research nuclear facilities

В работе представлены основные результаты нейтронно-физических расчетов пунктов хранения необлученного и отработавшего топлива реактора МБИР, транспортно-технологического оборудования и радиационно-защитных камер. Анализ выполнен в полном соответствии с требованиями государственных нормативных документов по ядерной безопасности исследовательских ядерных установок

Calculation and experimental data analysis of neutron spatial-energy distribution in the BOR-60 blanket. Part 2

S21

Boev, A.V.; Belozerova, A.R.; Zhemkov, I.Yu.; Ishunina, O.V.; Nabojshchikov, Yu.V.; Pavlov, V.V.; Chernysheva, T.I. (AO «Gosudarstvennyj Nauchnyj Tsentr - Nauchno-Issledovatel'skij Inst. Atomnykh Reaktorov», Dimitrovgrad (RU)), E-mail: n_yu_v@niiar.ru

Raschetno-eksperimental'noe opredelenie prostranstvenno-ehnergeticheskogo raspredeleniya nejtronov v bokovom ehkrane reaktora BOR-60. Chast' 2

p. 215-227

(RU)

17 refs., 6 figs., 9 tabs.

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ISSN 2414-1038

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(no.2)

EXPERIMENTAL REACTORS; FAST REACTORS; BOR-60 REACTOR; FUEL ASSEMBLIES; NEUTRON FLUX; ENERGY SPECTRA; MATHEMATICAL MODELS; COMPUTER CODES

The conditions of the experiment to determine the neutron spectra in the BOR-60 blanket have been analyzed and presented in the paper. The obtained data can be used to verify the codes, models and procedures applied in support of BOR-60 operation and experimental research

В работе проанализированы и представлены условия эксперимента по определению спектров нейтронов в зоне воспроизводства реактора БОР-60. Полученные данные могут быть использованы для проверки кодов, моделей и процедур, применяемых для проведения экспериментальных исследований и эксплуатации реактора БОР-60

The irradiating device for the fast reactor of big power

S21

Kamovich, M.S.; Stogov, V.Yu.; Gurskaya, O.S. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU)), E-mail: mkamovich@ippe.ru
Obluchatel'noe ustrojstvo dlya bystrogo reaktora bol'shoj moshchnosti

p. 228-233

(RU)

3 refs., 6 figs., 1 tab.

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FAST REACTORS; BELOYARSK-3 REACTOR; FUEL ASSEMBLIES; IRRADIATION DEVICES; COBALT 60; CAPTURE

The designs of irradiation devices for operating time of cobalt-60 isotope in BN reactors are presented in the paper. A new version of the irradiation device for use in a high-power sodium fast reactor is proposed. The comparison of different variants of irradiation devices according to the obtained specific activity is also given

В работе представлены конструкции облучательных устройств для наработки изотопа кобальта-60 в реакторах типа БН. Предложен новый вариант облучательного устройства для использования в быстром натриевом реакторе большой мощности. Приведено сравнение разных вариантов облучательных устройств по полученной удельной активности

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;S97

Kulikov, V.I. (Sankt-Peterburgskij Filial Aksionernogo Obshchestva «Federal'nyj Tsentr Nauki i Vysokikh Tekhnologij «Spetsial'noe Nauchno-Proizvodstvennoe Ob''edinenie «Ehleron», Sankt-Peterburg (RU)); Semenova, T.V. (Federal'noe Gosudarstvennoe Unitarnoe Predpriyatie Rossijskij Federal'nyj Yadernyj Tsentr Vserossijskij Nauchno-Issledovatel'skij Inst.

Ehksperimental'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: zhylmaganbetov@secnrs.ru

Sravnenie koehffitsientov vliyaniya dlya raschetov tokov ionizatsionnykh kamer dlya reaktora RU V-392M (VVEhR-1200), rasschitannykh razlichnymi sposobami

p. 234-242

(RU)

8 refs., 7 figs., 1 tab.

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(no.2)

NUCLEAR POWER; WWER TYPE REACTORS; NOVOVORONEZH-2 REACTOR; IONIZATION CHAMBERS; COMPUTERIZED SIMULATION; NUMERICAL SOLUTION; COMPUTER CODES

The article presents the results of calculations of the influence factors of fuel assemblies on the current of ionizing chambers in the simulation of a reactimeter of reactor VVER. The article also shows the dependence of the relative current on time in the logarithmic scale, as well as the dependence of reactivity on time, built on the results of numerical simulation using three sets of the influence factors in the process of resetting the scram-system

В статье представлены результаты расчетов коэффициентов влияния тепловыделяющих сборок на ток ионизационных камер (ИК) при моделировании реактиметра реактора ВВЭР. В статье также приводятся зависимости тока ИК от времени в процессе сброса аварийной защиты, а также зависимости реактивности от времени, построенные по результатам расчетного моделирования с использованием трех наборов коэффициентов влияния

Program complex for radiation safety calculation

S21;S97

Belov, A.A.; Bereznev, V.P.; Seleznev, E.F. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)), E-mail: belov@ibrae.ac.ru; Shkarovskij, D.A. (Natsional'nyj Issledovatel'skij Tsentr «Kurchatovskij Inst.», Moscow (RU)); Zherdev, G.M. (Aksionernoe Obshchestvo «GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo», Obninsk (RU))

Programmnyj kompleks rascheta radiatsionnoj bezopasnosti

p. 243-255

(RU)

13 refs., 9 figs.

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(no.2)

NUCLEAR FACILITIES; RADIATION PROTECTION; REACTOR SAFETY; SPENT FUELS; COMPUTER CODES; MONTE CARLO METHOD

The paper presents a code for substantiating the radiation safety of a fast neutron reactor plant and fuel cycle facilities in terms of calculating the nuclide composition of the plant or facility, and assessing radiation safety in both deterministic SnPm approximations on structured and unstructured grids and in the stochastic Monte Carlo approximation

В работе представлен код для обоснования радиационной безопасности реакторной установки на быстрых нейтронах и объектов топливного цикла в части расчета нуклидного состава установки или объекта и оценки радиационной безопасности как в

детерминистических SnPm-приближениях на структурированных и неструктурированных сетках, так и в стохастическом приближении методом Монте-Карло

IX International scientific and practical conference «Physics and technical problems in science, industry and medicine». Collection of abstracts

S12;S21

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

IX International scientific and practical conference «Physics and technical problems in science, industry and medicine»

Tomsk (RU)

21-22 Sep 2017

IX Mezhdunarodnaya nauchno-prakticheskaya konferentsiya «Fiziko-tehnicheskie problemy v nauke, promyshlennosti i meditsine»

IX Mezhdunarodnaya nauchno-prakticheskaya konferentsiya «Fiziko-tehnicheskie problemy v nauke, promyshlennosti i meditsine». Sbornik tezisov dokladov

INIS-RU--616

Tomsk (RU)

TPU

2017

78 p.

(RU, EN)

LEADING ABSTRACT; MEETINGS; NUCLEAR FACILITIES; FUEL CYCLE; WASTE MANAGEMENT; REACTOR SAFETY; RESEARCH REACTORS

The collection of abstracts includes materials of the IX International scientific and practical conference «Physical and technical problems in science, industry, and medicine» dedicated to the 50th anniversary of the IRT-T research nuclear reactor of Tomsk Polytechnical University. The conference was held on September, 21-22, 2017 at the Physics and Technology Institute of Tomsk Polytechnical University. The reports were presented in three sections: «Operation of research nuclear facilities in the world: modern challenges»; «International and national experience in improving the safety culture of nuclear facilities»; «Nuclear technology of the XXI century»

Сборник тезисов докладов включает материалы IX Международной научно-практической конференции «Физико-технические проблемы в науке, промышленности и медицине», посвященной 50-летию исследовательского ядерного реактора ИРТ-Т Томского политехнического университета. Конференция проходила 21-22 сентября 2017 г. в Физико-техническом институте Томского политехнического университета. Доклады были представлены на трех секциях: «Эксплуатация исследовательских ядерных установок в мире: вызовы современности», «Международный и национальный опыт в совершенствовании культуры безопасности ядерных объектов», «Ядерные технологии XXI века»

Survival of the minor actinides in the epithermal spectrum of neutrons

S12

Ivanova, A.A.; Bedenko, S.V.; Lutsik, I.O. (National Research Tomsk Polytechnical Univ., Tomsk (RU)), E-mail: alyaivanova4@gmail.com

IX International scientific and practical conference «Physics and technical problems in science, industry and medicine»

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p. 10-11

(EN)

4 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politeknicheskij Univ.», Tomsk (RU)

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INIS-RU--616

Tomsk (RU)

TPU

2017

78 p.

NUCLEAR FUELS; SPENT FUELS; ACTINIDES; BURNUP; NEUTRONS; EPITHERMAL NEUTRONS; TRANSMUTATION; RADIOTOXINS

Optimized filtered backprojection tomographic reconstruction algorithm for step-shift scanning of the sample

S62

Ozdiev, A.H. (National Research Tomsk Polytechnical Univ., Tomsk (RU)), E-mail: ozdiev@tpu.ru

IX International scientific and practical conference «Physics and technical problems in science, industry and medicine»

Tomsk (RU)

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p. 11-12

(EN)

1 fig.

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Tomsk (RU)

TPU

2017

78 p.

NUCLEAR MEDICINE; COMPUTERIZED TOMOGRAPHY; RADIOISOTOPE SCANNING;
RADIATION MONITORING; X-RAY EMISSION ANALYSIS; CALCULATION METHODS

The state of nuclear and radiation safety of the research nuclear reactor IRT-T S21

Yanichev, A.; Naimushin, A.; Khudoleeva, O.; Khudoleev, P. (National Research Tomsk Polytechnical Univ., Tomsk (RU))

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p. 12

(EN)

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Tomsk (RU)

TPU

2017

78 p.

NUCLEAR POWER; RESEARCH REACTORS; IRT REACTOR; RADIATION PROTECTION; REACTOR SAFETY; SERVICE LIFE

Restoration of a defective welded joint based on ultrasonic tomography data S21

Abramets, V.V.; Dolmatov, D.O.; Salchak, Ya.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: vvabramets@yandex.ru

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Rekonstruktsiya defektnogo svarnogo soedineniya na osnove dannykh ul'trazvukovoj tomografii p. 12-13

(RU)

2 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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industry and medicine». Collection of abstracts
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INIS-RU--616
Tomsk (RU)
TPU
2017
78 p.
NUCLEAR POWER; REACTOR SAFETY; WELDED JOINTS; FAILED ELEMENT DETECTION; TOMOGRAPHY; ULTRASONIC TESTING

Analysis of changes in the neutron flux spectrum at the beginning and end of the fuel campaign of the VK-300 reactor plant
S12

Balachkov, M.M.; Konovalov, D.V.; Permikin, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: mmb2@tpu.ru

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IX Mezhdunarodnaya nauchno-prakticheskaya konferentsiya «Fiziko-tehnicheskie problemy v nauke, promyshlennosti i meditsine»

Analiz izmeneniya spektra potoka nejtronov na nachalo i konets kampanii topliva reaktornoj ustanovki VK-300

p. 13-14

(RU)

1 ref., 1 fig.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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Tomsk (RU)

TPU

2017

78 p.

NUCLEAR FACILITIES; BWR TYPE REACTORS; POWER TRANSMISSION; FUEL CYCLE; NUCLEAR FUELS; NEUTRON FLUX

On the possibility of high-temperature processing of irradiated graphite in research reactors

S12;S21

Mudarisov, O.V. (OOO «Ap Kvar», Tomsk (RU)); Novoselov, I.Yu.; Makarevich, S.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)); Bepala, E.V. (AO «Opytno-Demonstratsionnyj Tsentri Vyvoda iz Ehkspluatatsii Uran-Grafitovykh Yadernykh Reaktorov», Seversk (RU))

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IX Mezhdunarodnaya nauchno-prakticheskaya konferentsiya «Fiziko-tekhicheskie problemy v nauke, promyshlennosti i meditsine»

O vozmozhnosti vysokotemperaturnoj pererabotki obluchennogo grafita issledovatel'skikh reaktorov

p. 14-15

(RU)

2 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe

Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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NUCLEAR FUELS; SPENT FUELS; GRAPHITE; RESEARCH REACTORS; WASTE PROCESSING; EVAPORATION; HEAT TRANSFER

Application of boron carbide as an absorber for the control and protection rods of the BN-800 reactor at the Beloyarsk NPP

S21

Bibik, I.S.; Val'tseva, A.I. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: ira.bibik.95@mail.ru

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Primenenie karbida bora v kachestve poglotitelya dlya sterzhnej sistemy upravleniya i zashchity reaktora BN-800 Beloyarskoj AEhS

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Distribution of the neutron flux of the HEC-1 channel of the IRT-T reactor in tissue-equivalent phantoms

S21;S62

Busygin, A.S.; Anikin, M.N.; Najmushin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: asbu26@gmail.com

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Neutron beam formation for neutron-capture therapy at the IRT-T reactor

S21;S62

Zagumennyj, E.A.; Anikin, M.N.; Najmushin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: Zeilt@mail.ru

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Calculation of the nuclear fuel campaign duration for a the VK-300 small-power reactor plant for various fuel compositions

S12

Konovalov, D.V.; Balachkov, M.M.; Permikina, E.E. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: dvk33@tpu.ru

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Raschet dlitel'nosti kampanii yadernogo topliva malomoshchnoj reaktornoj ustanovki VK-300 dlya razlichnykh toplivnykh kompozitsij

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Estimation of dose rate when working with fast neutron sources

S62

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Research nuclear installations: an experimental base for innovative development of the nuclear industry in Russia

S21

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Modernization of the experimental channel HEC-1 of the IRT-T reactor to increase the neutron flux density in the irradiation zone of biological objects S21;S62

Majstrenko, A.S.; Najmushin, A.G.; Anikin, M.N. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: alexandrmaistrenko@mail.ru

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Optimization of the composition of the neutron beam formation complex at the IRT-T reactor for neutron-capture therapy

S21;S62

Molodov, P.A.; Anikin, M.N.; Najmushin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: molodovpavel@gmail.com

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Optimizatsiya sostava kompleksa formirovaniya nejtronnogo puchka na reaktore IRT-T dlya tselej nejtron zakhvatnoj terapii

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Phenomenological model of decontamination of irradiated graphite of research reactors in plasma

S12

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Prospects for the use of a research reactor of the IRT-T type for solving

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Perspektivy primeneniya issledovatel'skogo reaktora tipa IRT-T dlya resheniya zadach v ramkakh problemy grafitovykh radioaktivnykh otkhodov

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Estimation of changes in the neutron flux density spectrum during the nuclear fuel operation of a small-power WWER-type reactor

S21

Permikin, A.A.; Ovsenev, A.E.; Balachkov, M.M. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: aap71@tpu.ru

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Stability of the finished product of the SHS in Zr-Al system under heating

S36

Kolyadko, D.K.; Chursin, S.S. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: dkk5@tpu.ru

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Interaction solution method effectiveness of conditional critical neutron-transport task in subcritical systems

S97

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S36

Babikhina, M.N.; Kudiyarov, V.N.; Syrtanov, M.S. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: m.babikhina@mail.ru

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Disarmament lessons from countries that have abandoned nuclear weapons

S98

Vdovenko, A.Yu.; Demyanyuk, D.G. (*Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)*), E-mail: ayv9@tpu.ru

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NUCLEAR WEAPONS; PROLIFERATION; NON-PROLIFERATION POLICY

Thermal neutron beam characteristics control

S73

Kocharyan, V.R. (*Inst. Prikladnykh Problem Fiziki NAN RA, Erevan (AM)*); *Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)*), E-mail: vahan2@yandex.ru

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Nuclear and radiation safety issues in the Northern Europe region

S22;S98

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Vopros yadernoj i radiatsionnoj bezopasnosti v regione Severnoj Evropy

p. 31-33

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78 p.

NUCLEAR ENERGY; NUCLEAR POWER; RADIATION PROTECTION; REACTOR ACCIDENTS; SECURITY; THEFT; WESTERN EUROPE

Designing a safety system for nuclear materials handling at a nuclear hazardous facility

S21

Permikina, E.E.; Konovalov, D.V.; Ovsenev, A.E. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: eek11@tpu.ru

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Proektirovanie sistemy bezopasnosti pri obrashchenii s yadernymi materialami na yaderno-opasnom ob"ekte

p. 33-34

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2 refs., 1 fig.

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78 p.

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Unification of technical systems by introducing the concept of synergy at NPP S21

Pushenko, P.A.; Sednev, D.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: pushenkopolina@mail.ru

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Unifikatsiya tekhnicheskikh sistem putem vnedreniya kontseptsii sinergii na AEhS

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78 p.

NUCLEAR POWER; NUCLEAR POWER PLANTS; REACTOR SAFETY; RADIATION PROTECTION; PHYSICAL PROTECTION; SYNERGISM

The impact of faulty fusion on the ultimate stress values of the welds in containers with SNF

S12

Sedanova, E.P.; Salchak, Ya.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: lizasedanova@mail.ru

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Vliyanie neprovarov na predel'nye znacheniya napryazhenij svarnykh shvov kontejnerov s OYaT
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RADIOACTIVE WASTE MANAGEMENT; SPENT FUELS; DRY STORAGE;

NONDESTRUCTIVE TESTING; WELDED JOINTS; CALCULATION METHODS

Intercultural interaction in the field of ensuring the safe use of atomic energy

S21

Tatolina, A.I.; Stepanov, B.P.; Danejkin, Yu.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: nmeynn@gmail.com

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Mezhkul'turnoe vzaimodejstvie v oblasti obespecheniya bezopasnogo ispol'zovaniya atomnoj ehnergii

p. 36

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Application of high-frequency RFID-tags in nuclear industry

S21

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Primenenie vysokochastotnykh RFID-metok na predpriyatiyakh atomnoj promyshlennosti

p. 36-37

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Application of simulation modeling in assessing the effectiveness of physical protection

S21

Sheveleva, A.A.; Stepanov, B.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: aas-tpu@yandex.ru

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Primenenie imitatsionnogo modelirovaniya pri otsenke ehffektivnosti fizicheskoy zashchity

p. 37-38

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Comparative analysis of methods and results of local assessment of radon risks in the Russian Federation and the Czech Republic

S63

Shilova, K.O.; Ryzhakova, N.K.; Udalov, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politeknicheskij Univ., Tomsk (RU)), E-mail: shilovaxeniya@gmail.com

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Sravnitel'nyj analiz metodov i rezul'tatov lokal'noj otsenki radonovykh riskov v Rossijskoj Federatsii i Cheshskoj Respublike

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NUCLEAR MEDICINE; RADIOLOGY; RADIOACTIVE MATERIALS; RADON; GAMMA RADIATION; EMANOMETERS

Modeling of flexible resource efficient systems of isotopic separation including exchange and membrane processes

S07

Balashkov, V.S.; Verhun, A. (National Research Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: Balashkov_vit@mail.ru

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ISOTOPE PRODUCTION; ISOTOPE SEPARATION; ISOTOPIC EXCHANGE;
MEMBRANES; CALCULATION METHODS; SIMULATION

Profiling of nuclear power plants

S21

Addo, O.C. (National Research Tomsk Polytechnic Univ., Tomsk (RU))

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78 p.

NUCLEAR POWER PLANTS; POWER GENERATION; ELECTRICITY; FUEL CYCLE;
REACTOR CORES; INTERNATIONAL COOPERATION

Medical applications of accelerators for radiological sterilization

S61

Chernov, L.V. (National Research Tomsk Polytechnic Univ., Tomsk (RU)), E-mail: lvc2@tpu.ru

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Application of an electrical discharge in saline for removal of benign tumors

S62

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78 p.

MEDICINE; MEDICAL SUPPLIES; SURGERY; SURGICAL MATERIALS; NEOPLASMS;
ELECTROLYTES

Nickel isotope separation occurring filling of gas centrifuge cascade with different stage number

S07

Ushakov, A.A. (JSC "PA ECP", Zelenogorsk (RU); National Research Tomsk Polytechnic Univ., Tomsk (RU)); Orlov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU)); Sovach, V.P. (JSC "PA ECP", Zelenogorsk (RU)), E-mail: ushakovaa2015@sibmail.com, orlovaa@tpu.ru

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Modeling of nonstationary processes during separation of multicomponent isotope mixtures

S07

Ushakov, A.A. (JSC "PA ECP", Zelenogorsk (RU); National Research Tomsk Polytechnic Univ., Tomsk (RU)); Orlov, A.A. (National Research Tomsk Polytechnic Univ., Tomsk (RU)); Sovach, V.P. (JSC "PA ECP", Zelenogorsk (RU)), E-mail: ushakovaa2015@sibmail.com, orlovaa@tpu.ru

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Investigation of the applicability of the SP34 solid-state phantom for orthovoltic X-ray radiation

S62

Tkhorik, O.V.; Sukhikh, E.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: oxana.tkhorik@gmail.com

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Issledovanie primenimosti tverdotel'nogo fantoma SP34 dlya ortovol'tnogo rentgenovskogo izlucheniya

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78 p.

NUCLEAR MEDICINE; NEUTRON CAPTURE THERAPY; PHANTOMS; DIAGNOSTIC TECHNIQUES; RADIOTHERAPY; MONTE CARLO METHOD

A waterless method for processing the fuel with the use of oxidizing agents

S12

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Bezvodnyj sposob obrabotki topliva s ispol'zovaniem sistemy okislitelej

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NUCLEAR MATERIALS MANAGEMENT; NUCLEAR FUELS; SPENT FUELS; OXIDIZERS; VOLOXIDATION PROCESS; NITROGEN DIOXIDE

Substantiation of the possibility of using «photon-capture» interactions in radiation therapy

S62

Baulin, A.A.; Sukhikh, E.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU); Tomskij Oblastnoj Onkologicheskij Dispanser, Tomsk (RU)), E-mail: baylin1991@tpu.ru; Sukhikh, L.G. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)); Shejno, I.N. (FGBU GNTs FMBTs imeni A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Obosnovanie vozmozhnosti primeneniya «foton-zakhvatnykh» vzaimodejstvij v luchovoj terapii p. 50-51

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78 p.
NUCLEAR MEDICINE; EXTERNAL BEAM RADIATION THERAPY; DIAGNOSTIC TECHNIQUES; X-RAY DETECTION; NEOPLASMS; RADIOLOGY

The impact of neutron spectrum hardness on the accumulation of U^{233} in PWR reactor

S21

Borodach, A.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: vigoolka@gmail.com

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Vliyanie zhestkosti spektra nejtronov na nakoplenie U^{233} v vodo-vodyanom reaktore
p. 51-52

(RU)

2 refs., 1 fig.

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Automation of the electron beams wire-scanning method

S62

Grigor'eva, A.A.; Krasnykh, A.A.; Milojchikova, I.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: anngrigorievabr@gmail.com

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Avtomatizatsiya metoda provolochnogo skanirovaniya puchkov ehlektronov

p. 52-53

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Comparison of experimental and calculated data of depth X-ray dose distribution

S62

Danilova, I.B.; Milojchikova, I.A.; Stuchebrov, S.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: irisna2809@gmail.com

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Sravnenie ehksperimental'nykh i raschetnykh dannykh glubinnogo raspredeleniya dozy rentgenovskogo izlucheniya

p. 53-54

(RU)

2 refs.

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Computational study of thorium-containing fuel in the thermal neutron spectrum of a light-water reactor plant

S21

Zor'kin, A.I.; Bedenko, S.V.; Knyshev, V.V.; Ukrainets, O.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: aiz4@tpu.ru

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Raschetnoe issledovanie torijsoderzhashchego topliva v spektre teplovykh nejtronov legkovodnoj reaktornoj ustanovki

p. 54

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2 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ.», Tomsk (RU)

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Study of the clinical applicability of the parallel-plate ionization chamber PPC40 for orthovoltage X-ray radiation

S62

Kadochnikova, S.A.; Baulin, A.A.; Sukhikh, E.S. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: s.kadochnikova07@gmail.com

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Issledovanie klinicheskoy primenimosti ploskoparallel'noj ionizatsionnoj kamery PPC40 dlya ortovol'nogo rentgenovskogo izlucheniya

p. 55

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3 refs.

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Joint plasma treatment of water-salt and organic waste after spent nuclear fuel reprocessing

S12

Karengin, A.A.; Karengin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: kiros@tpu.ru

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Sovmestnaya plazmennaya obrabotka vodno-solevykh i organicheskikh otkhodov posle pererabotki otrabotavshego yadernogo topliva

p. 55-56

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Stresses in the reactor's microfuel in the epithermal neutron spectrum

S12

Bedenko, S.V.; Knyshev, V.V.; Zor'kin, A.I. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: vvk28@tpu.ru

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Napryazheniya v mikrotoplive reaktora v spektre ehpiteplovym nejtronov

p. 56-57

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The impact of plutonium nuclide composition in the starting load on the value of the nuclear fuel burnup depth of in the BN-800 reactor

S21

Komarov, P.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: pak6@tpu.ru

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Vliyanie nuklidnogo sostava plutoniya v startovoj zagruzke na znachenie glubiny vygoraniya yadernogo topliva v reaktore BN-800

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Measurement of depth distributions of clinical electron beam doses in HIPS plastic

S62

Krasnykh, A.A.; Milojchikova, I.A.; Stuchebrov, S.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: angelina12021993@gmail.com

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Izmerenie glubinykh raspredelenij doz klinicheskogo puchka ehlektronov v HIPS plastike p. 58-59

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NUCLEAR MEDICINE; PLASTIC SURGERY; NEUTRON THERAPY; ELECTRON BEAMS; DIAGNOSTIC TECHNIQUES; RADIOTHERAPY

Therapeutic beam dose monitoring during neutron-capture therapy in the IRT-T research reactor

S62

Krylov, S.I.; Anikin, M.N.; Najmushin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: sik5@tpu.ru

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Monitoring dozy terapevticheskogo puchka pri provedenii nejtron-zakhvatnoj terapii na baze issledovatel'skogo reaktora IRT-T

p. 59-60

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2 refs.

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NUCLEAR MEDICINE; NEUTRON THERAPY; NEUTRON CAPTURE THERAPY; DIAGNOSTIC TECHNIQUES; RADIOTHERAPY; MELANOMAS

Experiments to increase the yield of the ^{18}F -FDG synthesis reaction

S62

Kulakov, A.V.; Chakrova, E.T. (Inst. Yadernoj Fiziki, Almaty (KZ)), E-mail: kulakov@inp.kz

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Ehksperimenty po povysheniyu vykhoda reaktsii sinteza ^{18}F -FDG

p. 60

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Calculation of the characteristics of neutron radiation in subcritical systems with ceramic nuclear material

S21

Lutsik, I.O.; Bedenko, S.V.; Ukrainets, O.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: iol4@tpu.ru

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Raschet kharakteristik nejtronnogo izlucheniya v podkriticheskikh sistemakh s keramicheskim yadernym materialom

p. 61

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NUCLEAR POWER; REACTOR MATERIALS; NUCLEAR FUELS; NEUTRON TRANSFER; CERAMICS; MONTE CARLO METHOD

Selection of optimal parameters for the production of ceramic MOX-fuel

S12

Malyshev, M.S.; Karelin, V.A.; Kobleva, K.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: malyshev.ms.work@yandex.ru

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Vybor optimal'nykh parametrov proizvodstva keramicheskogo MOKS-topliva

p. 62-63

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2 refs., 1 fig.

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Plasma-chemical synthesis and determination of thermo-physical characteristics of metal-oxide compositions «W-UO₂»

S21

Mendoza, O.; Novoselov, I.Yu.; Karegin, A.G. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: kiros@tpu.ru

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Plazmokhimicheskij sintez i opredelenie teplofizicheskikh kharakteristik metall-oksidnykh kompozitsij «W-UO₂»

p. 63-64

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REACTOR MATERIALS; NUCLEAR FUELS; FUEL ELEMENTS; MIXED OXIDE FUELS; URANIUM 235; EMBRITTLEMENT; CRACKING

The study of the crystallizer's efficiency when changing the level of the solution in the crystallization zone

S21

Nadezhdin, I.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: kun9@list.ru

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Issledovanie ehffektivnosti raboty kristallizatora pri izmenenii urovnya rastvora v zone kristallizatsii

p. 64-65

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NUCLEAR POWER; REACTOR MATERIALS; SPENT FUELS; RADIOACTIVE WASTE PROCESSING; PUREX PROCESS; CRYSTALLIZATION

Development of a portable scintillation detector model based on a PIN-diode S61

Nikishkin, T.G. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: tgn1@tpu.ru

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Razrabotka maketa portativnogo stsintillyatsionnogo detektora na osnove PIN-dioda p. 65-66

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DOSIMETRY; RADIATION MONITORING; IONIZING RADIATIONS; SCINTILLATION COUNTERS; RADIATION DETECTORS; SEMICONDUCTOR DIODES

Determination of Hounsfield indices of test samples produced by the layer-by-layer deposition technique

S62

Pereverzeva, M.A.; Milojchikova, I.A.; Krasnykh, A.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: marinapereverzeva1994@gmail.com

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Opreделение индексов Khaunsfilda testovykh obraztsov, izgotovlennykh metodom poslojnogo napravleniya

p. 66-67

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INIS-RU--616

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TPU

2017

78 p.

NUCLEAR MEDICINE; RADIOTHERAPY; RADIOLOGY; IONIZING RADIATIONS; TOMOGRAPHY; PHANTOMS

The impact of radiation treatment on the properties of epoxy composites filled with natural zeolite

S36

Pronina, A.E.; Mel'nikova, T.V.; Nazarenko, O.B. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: i@tpu.ru

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Vliyanie radiatsionnoj obrabotki na svoystva ehpoksidnykh kompozitov, napolnennykh prirodnykh tseolitom

p. 67

(RU)

4 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe

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2017

78 p.

MATERIALS; POLYMERS; ORGANIC COMPOUNDS; EPOXIDES; PROCESSING;
IRRADIATION

Estimation of service life of graphite blocks of the GT-MGR high-temperature reactor

S21

Pugachev, D.K.; Kulikov, M.G.; Kostylev, O.K. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: dkp2@tpu.ru

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Otsenka znacheniya sroka sluzhby grafitovykh blokov vysokotemperaturnogo reaktora GT-MGR
p. 67-69

(RU)

2 refs., 1 fig.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe

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ELEMENTS; GRAPHITE

Radiation technology in the manufacture of semiconductor devices

S36

Gradoboev, A.V.; Simonova, A.V. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: ainakim297@yandex.ru

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Radiatsionnye tekhnologii v proizvodstve poluprovodnikovyykh priborov

p. 69

(RU)

3 refs.

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78 p.

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Comparison of calculation algorithms for the three-dimensional conformal radiation therapy and radiation therapy with modulation of intensity in the XIO planning system for use in clinical practice

S62

Sinyagina, M.A.; Sukhikh, E.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU); OGAUZ «Tomskij Oblastnoj Onkologicheskij Dispanser», Tomsk (RU)), E-mail: sin-masha@mail.ru

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Sravnenie algoritmov rascheta dlya trekhmernoj konformnoj luchevoj terapii i luchevoj terapii s modulyatsiej intensivnosti v sisteme planirovaniya XIO dlya ispol'zovaniya v klinicheskoy praktike

p. 70

(RU)

3 refs.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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78 p.

NUCLEAR MEDICINE; DIAGNOSTIC TECHNIQUES; NEUTRON THERAPY; RADIOTHERAPY; COMBINED THERAPY; ABSORBED RADIATION DOSES; THREE-DIMENSIONAL CALCULATIONS

Features of the Wigner energy release in graphite in the most low-temperature zones of nuclear reactors

S21

Pavlyuk, A.O.; Kotlyarevskij, S.G.; Bepala, E.V. (Opytno-Demonstratsionnyj Tsentr Vyvoda iz Ehkspluatatsii Uran-Grafitovykh Yadernykh Reaktorov, Seversk (RU)), E-mail: info@dnrc.ru

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Osobennosti protsessa vydeleniya ehnergii Vignera v grafite naibolee nizektemperaturnykh zon konstruktsij yadernykh reaktorov

p. 71-72

(RU)

2 refs., 1 fig.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe

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78 p.

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Micro-stresses in solids and methods for their determination

S36

Tuzovskij, M.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)), E-mail: mat10@tpu.ru

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Mikronapryazheniya v tverdykh telakh i sposoby ikh opredeleniya

p. 72-73

(RU)

3 refs.

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78 p.
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THERMAL STRESSES

Creating a photon beam model of the Elekta Synergy therapeutic accelerator in the PLUNC planning system

S62

Khasenova, I.Zh.; Sukhikh, E.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: hasenova-indira@mail.ru

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Sozdanie modeli fotonnogo puchka terapevticheskogo uskoritelya Elekta Synergy v sisteme planirovaniya PLUNC

p. 73-74

(RU)

1 fig.

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NUCLEAR MEDICINE; NEUTRON THERAPY; PHOTON BEAMS; RADIOTHERAPY;
LINEAR ACCELERATORS; NEOPLASMS

Analysis of the neutron flux density spectrum using the WIMS-D5 software package

S97

Ovsenev, A.E.; Permikin, A.A.; Permikina, E.E. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: ovsenev1993@mail.ru

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Analiz spektra plotnosti potoka nejtronov v programmnom komplekse WIMS-D5

p. 74-75

(RU)

1 ref., 1 fig.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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78 p.

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REACTOR SAFETY; NEUTRON SPECTRA; NEUTRON FLUX

Application of a well neutron counter for detecting amounts of nuclear materials S98

Artemov, E.V. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)), E-mail: Evgeniy1.artemov@gmail.com

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Primenenie kolodeznogo schetchika nejtronov dlya obnaruzheniya kolichestva yadernykh materialov

p. 75-76

(RU)

3 refs., 1 fig.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Obrazovaniya «Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ.», Tomsk (RU)

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78 p.

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PROLIFERATION POLICY; RADIATION DETECTORS; MIXED OXIDE FUELS

The study of extraction and stripping processes under dynamic mode

S12

Zelenetskaya, E.P. (*Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)*),
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Issledovanie ehkstraksionno-reehstraksionnykh protsessov v dinamicheskom rezhime
p. 76-77

(RU)

1 ref.

Ministerstvo Obrazovaniya i Nauki RF, Federal'noe Gosudarstvennoe Avtonomnoe
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78 p.

NUCLEAR FUELS; FUEL CYCLE; EXTRACTION; MASS TRANSFER; CENTRIFUGES;
COMPUTERIZED SIMULATION

XXI Russian conference «Safety of nuclear research facilities». Abstracts

S22

Gosudarstvennaya Korporatsiya po Atomnoj Ehnergii «Rosatom», Moscow (RU); Aktsionernoe
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AO GNTs NIAR

2019

40 p.

(RU)

LEADING ABSTRACT; MEETINGS; REACTOR SAFETY; RESEARCH REACTORS;
RESCUE OPERATIONS; SAFETY CULTURE; REACTOR DECOMMISSIONING;
PERSONNEL MANAGEMENT; RADIOACTIVE WASTE MANAGEMENT; SPENT FUELS

The collection contains abstracts of reports presented at the XXI Russian Conference «Safety of Research Nuclear Facilities», which was held May 20-24, 2019 in Dimitrovgrad, Ul'yanovsk Region (Russia). The aim of the conference was to discuss operating experience and analyze the state of nuclear and radiation safety of reactors. The conference addressed the following issues related to research nuclear facilities: operational experience and decommissioning (state of nuclear and radiation safety, safety barriers, dose loads, etc.); measures to improve nuclear and radiation safety; modernization and reconstruction of nuclear facilities and the construction of new ones; experimental use; issues of improving safety culture and staff training (status, problems, suggestions); spent nuclear fuel management of research reactors (storage status, fuel handling schemes and safety issues in handling it, problems)

Сборник содержит тезисы докладов, представленных на XXI Российской конференции «Безопасность исследовательских ядерных установок», проходившей 20-24 мая 2019 года в г. Димитровграде Ульяновской области (Россия). Целью конференции было обсуждение опыта эксплуатации и анализ состояния ядерной и радиационной безопасности реакторов. На конференции рассматривались следующие вопросы, касающиеся исследовательских ядерных установок: опыт эксплуатации и вывода из эксплуатации (состояние ядерной и радиационной безопасности, барьеров безопасности, дозовые нагрузки и т.д.); мероприятия по повышению ядерной и радиационной безопасности; модернизация и реконструкция ядерных установок и сооружение новых; экспериментальные возможности использования; вопросы повышения культуры безопасности и подготовки персонала (состояние, проблемы, предложения); обращение с отработавшим ядерным топливом исследовательских реакторов (состояние хранилищ, схемы обращения с топливом и вопросы безопасности при обращении с ним, проблемы)

Safety issues when nuclear facility life extension

S22

Adamchik, S.A.; Krechetov, S.S.; Shvedov, M.O. (Goskorporatsiya «Rosatom», Moscow (RU))

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Voprosy obespecheniya bezopasnosti pri prodlenii sroka ehkspluatatsii ob"ektov ispol'zovaniya atomnoj ehnergii

p. 3

(RU)

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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2019

40 p.

NUCLEAR FACILITIES; SAFETY; OPERATION; SERVICE LIFE; LIFETIME EXTENSION; REACTOR LICENSING; ROSATOM

About improvement of federal rules and regulations when atomic energy use in safety of research nuclear installations

S22

Kuryndin, A.V.; Kirkin, A.M.; Karyakin, M.Yu. (FBU «NTTs YaRB», Moscow (RU));

Sapozhnikov, A.I.; Polyakov, D.N. (Rostekhnadzor, Moscow (RU))

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O sovershenstvovanii federal'nykh norm i pravil v oblasti ispol'zovaniya atomnoj ehnergii v chasti regulirovaniya bezopasnosti issledovatel'skikh yadernykh ustanovok

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40 p.

RESEARCH REACTORS; REACTOR SAFETY; REGULATIONS; RECOMMENDATIONS; NUCLEAR POWER; PERSONNEL MANAGEMENT; IAEA

Safe operation and modernization of SIC «Kurchatov Institute» research nuclear installations

S22

Kurskij, A.S. (FGBU «NITs Kurchatovskij Inst.», Moscow (RU))

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Bezopasnaya ehkspluatatsiya i modernizatsiya issledovatel'skikh yadernykh ustanovok NITs «Kurchatovskij institut»

p. 4-5

(RU)

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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40 p.

RESEARCH REACTORS; REACTOR SAFETY; NRC KURCHATOV INSTITUTE;
NUCLEAR FACILITIES; REACTOR OPERATION; REACTOR PLANNING

Radiation state of the IVV-2M reactor primary circuit in case of abnormal operation

S21

D'yakov, A.A.; Markov, D.V. (AO «IRM», Zarechnyj (RU))

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Radiatsionnoe sostoyanie pervogo kontura reaktora IVV-2M pri narusheniyakh normal'noj ehkspluatatsii

p. 5-6

(RU)

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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40 p.

IVV-2M REACTOR; PRIMARY COOLANT CIRCUITS; REACTOR ACCIDENTS;
RECOMMENDATIONS; REACTOR OPERATION; RADIATION EFFECTS;
DECLADDING; FUEL ELEMENTS; COOLANTS

Operating experience of the BOR-60 reactor: work to improve safety and lifetime extension

S21

Krashennnikov, Yu.M.; Nechaev, L.B.; Kharlov, V.B. (AO «GNTs NIIAR», Dimitrovgrad (RU))

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Opyt ehkspluatatsii reaktornoj ustanovki BOR-60: raboty po povysheniyu bezopasnosti i prodleniyu sroka ehkspluatatsii

p. 6

(RU)

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Yanichev, A.A.; Najmushin, A.G.; Khudoleeva, O.M.; Khudoleev, P.N. (FGAOU VO «IShYaT NI TPU», Tomsk (RU))

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*Zajchenko, P.A.; Pajdulov, A.V.; Fomin, D.V.; Sharaev, A.M. (AO «GNTs NIIAR», Dimitrovgrad
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Transfer of RBT-6, RBT-10 reactors to new fuel (current state)

S21

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Progress in the IVV-2M research nuclear reactor during the 2018 year

S21

Kozlov, A.V.; Novgorodskij, V.S.; Rogovskij, A.M.; Seleznev, E.N. (AO «IRM», Zarechnyj (RU))

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S37

Pushkin, D.V.; Savchenkov, A.V.; Serezhkina, L.B.; Serezhkin, V.N. (Samarskij Natsional'nyj Issledovatel'skij Univ. im. Akademika S.P. Koroleva, Samara (RU)), e-mail: pushkin@samsu.ru

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p. 8

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ENERGY LEVELS; CRYSTALS

Synthesis and properties of 4-[4-(1-methyl-1-phenylethyl)phenoxy]phthalocyanines with rare earth metals

S37

Tikhomirova, T.V.; Smirnov, A.A.; Nalimova, K.A.; Shaposhnikov, G.P.; Vashurin, A.S.
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SPECTROSCOPY; INFRARED SPECTRA; ELECTRON SPECTROSCOPY

Synthesis and properties of new oxide materials on the base of yttrium-barium ferrite $Y_xBa_{5-x}Fe_{5-y}Co_yO_{15}$ Plus-Minus Sign#Greek Small Letter Delta#

S37

Bryuzgina, A.V.; Urusova, A.S.; D'yakova, A.V.; Elokhova, A.A.; Kuzinkina, M.I.; Solomakhina, E.E.; Cherepanov, V.A. (Ural'skij Federal'nyj Univ. imeni Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)), e-mail: anna.brjuzgina@urfu.ru

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Sintez i svoystva novykh oksidnykh materialov na osnove ferrita itriya-bariya $Y_xBa_{5-x}Fe_{5-y}Co_yO_{15}$ Plus-Minus Sign##Greek Small Letter Delta#

p. 19

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Highly effective permolecular organized luminescent materials on the base of lanthanides and ionic liquid

S37

Selivanova, N.M.; Zimina, M.V.; Galyametdinov, Yu.G. (Kazanskij Natsional'nyj Issledovatel'skij Tekhnologicheskij Univ., Kazan' (RU)), e-mail: marina-ls@list.ru

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Synthesis of new ruthenium (II) metallocarboranes with triphosphine ligands

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Kal'tenberg, A.A.; Grishin, I.D. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: a.a.kaltenberg@yandex.ru

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STRUCTURE

Modification of surface properties of polytetrafluoroethylene irradiated by accelerated particles

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Synthesis and high-temperature roentgenography of Na, Zr, Co and Ca, Zr, Co phosphates with NZP structure

S37

Aleksandrov, A.A.; Savinykh, D.O. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: alex777234@list.ru

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PARAMETERS

Low-temperature investigations of Ruddlesden-Popper phase of $Sr_3Fe_2O_{7-\#}$ Greek Small Letter Delta#

S37

Alekseeva, Yu.V.; Krasheninnikova, O.V.; Smirnova, N.N.; Knyazev, A.V.; Shumatov, A.O. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: alekseeva.julia-chem@yandex.ru

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Complex oxides in Pr-Ba-Fe-Co-O system: crystal structure and oxygen nonstoichiometry

S37

Bazueva, M.V.; Makarova, A.Eh.; Volkova, N.E. (Ural'skij Federal'nyj Univ. im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)), e-mail: bazueva01997@gmail.ru

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Balkarova, Zh.B.; Potanina, E.A.; Boldin, M.S.; Lantsev, E.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: balkarowa.zhanna@yandex.ru

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Balueva, K.V.; Plekhovich, A.D.; Dorofeev, V.V.; Kut'in, A.M. (Inst. Khimii Vysokochistykh Veshchestv RAN im. G.G. Devyatykh, Nizhnij Novgorod (RU)), e-mail: balueva@ihps.nnov.ru

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Blagin, R.D.; Sukhanov, M.V. (Inst. Khimii Vysokochistykh Veshchestv im. G.G. Devyat'kh RAN, Nizhnij Novgorod (RU)), e-mail: blagin.roman@gmail.com

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Vizner, A.S.; Bryuzgina, A.V.; Urusova, A.S. (Ural'skij Federal'nyj Univ. im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU))

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*Ganushchak, Yu.V.; Abramenko, V.L. (Luganskij Gosudarstvennyj Meditsinskij Univ., Lugansk
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Kozlova, E.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU))

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Lukoyanov, A.Yu.; Savushkin, I.A.; Komshina, M.E. (Nizhegorodskij Gosudarstvennyj Univ. im.

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Majorov, P.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: pavel.mayorov.94@mail.ru

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Maklakova, A.V.; Baten'kova, A.S.; Volkova, N.E. (Ural'skij Federal'nyj Univ. im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)), e-mail: anastasia_maklakova@mail.ru

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Medvedeva, Yu.A.; Zamyatin, O.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: medvedeva_555@mail.ru

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*Nosov, Z.K.; Zamyatin, O.A.; Zamyatina, E.V. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I.
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S37

Sarnit, E.A.; Baevskij, M.Yu.; Yag'yaeva, V.R. (Tavrisheskaya Akad. Krymskogo Federal'nogo Univ. imeni V.I. Vernadskogo, Simferopol' (RU)), e-mail: easarnit@mail.ru

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Fedulova, A.D. (Ivanovskij Gosudarstvennyj Khimiko-Tekhnologicheskij Univ., Ivanovo (RU)); Agafonov, A.V. (Inst. Khimii Rastvorov im. G.A. Krestova RAN, Ivanovo (RU)), e-mail: fedulova2707@gmail.com

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Synthesis and green luminescence of molecular complexes of bivalent europium $\text{EuL}_2 \cdot (\text{THF})_2$ (L = fod, acac, dpm, Ac)

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Yakupova, S.M.; Gazeeva, D.R.; Galimov, D.I. (Inst. Neftekhimii i Kataliza UFITs RAN, Ufa (RU)); Bulgakov, R.G. (Inst. Fiziki Molekul i Kristallov UFITs RAN, Ufa (RU)), e-mail: eliseevasm@yandex.ru

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Crystal structure and physico-chemical properties of solid solutions of general composition $\text{Sm}_{2-\epsilon}\text{Ba}_{3+\epsilon}\text{Fe}_{5-x}\text{Co}_x\text{O}_{15-\delta}$ ($\epsilon = 0; 0.125; x = 0; 1$)

Epsilon#Fe_{5-x}Co_xO_{15-δ} ($\epsilon = 0; 0.125; x = 0; 1$)

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Akhmadeev, A.R.; Golovachev, I.B.; Mychinko, M.Yu.; Volkova, N.E. (Ural'skij Federal'nyj Univ. imeni Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)), e-mail:

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Negutorov, N.V. (Voenno-Vozdushnaya Akad. im. Professora N.E. Zhukovskogo i Yu.A. Gagarina, Chelyabinsk (RU)); Zhanakhova, A.N. (Natsional'nyj Issledovatel'skij Yuzhno-Ural'skij Gosudarstvennyj Univ., Chelyabinsk (RU)), e-mail: neudchina.a@yandex.ru

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LEADING ABSTRACT; MEETINGS; NUCLEAR FACILITIES; REACTOR MATERIALS;
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The collection contains theses of the reports presented at the Inter-industry scientific and technical conference «Reactor materials of nuclear energy» held on September 17-21, 2018. The subjects of the reports include the following areas: actual problems of extending the resource for safe operation of reactor materials, selection and justification of criteria for assessing the safe state of structural elements and materials of nuclear plants and other problems

Сборник содержит тезисы докладов, представленных на Межотраслевой научно-технической конференции «Реакторные материалы атомной энергетики», проходившей 17-21 сентября 2018 года. Тематика докладов включает следующие направления: актуальные проблемы продления ресурса безопасной эксплуатации реакторных материалов; экспериментальные и расчетные данные, необходимые для обоснования оптимального ресурса безопасной эксплуатации реакторных материалов ЯЭУ нового поколения; выбор и обоснование критериев оценки безопасного состояния элементов конструкций и материалов ЯЭУ при эксплуатации и другие проблемы

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Kazantsev, A.G.; Markochev, V.M.; Silaev, A.A. (AO «NPO «TsNIITMASH», Moscow (RU));

Korolev, S.Yu. (AO «OKB GIDROPRESS», Podol'sk (RU))

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Portnykh, I.A.; Averin, S.A.; Kozlov, A.V. (AO «IRM», Zarechnyj (RU))

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The collection contains abstracts of reports presented at the international conference «Safety of nuclear research facilities», held in May 22-24, 2017 in Dimitrovgrad, Ulyanovsk Region (Russia). The aim of the conference was to discuss operating experience and analyze the state of nuclear and radiation safety of reactors. The conference addressed various issues related to research and test nuclear facilities

Сборник содержит тезисы докладов, представленных на международной конференции «Безопасность исследовательских ядерных установок», проходившей 22-24 мая 2017 г. в г. Димитровграде Ульяновской области (Россия). Целью конференции было обсуждение опыта эксплуатации и анализ состояния ядерной и радиационной безопасности реакторов. На конференции рассматривались различные вопросы, касающиеся исследовательских ядерных установок

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LEADING ABSTRACT; MEETINGS; NUCLEAR FACILITIES; COOLANTS; HEAVY METALS; LIQUID METAL FUELS

The book presents the abstracts of papers and presentations at the Fifth Conference “Heavy Liquid-Metal Coolants in Nuclear Technologies” commemorating the 60th anniversary of the start-up of the world’s first lead-bismuth cooled reactor – the 27/VT test facility at the IPPE

В сборнике представлены тезисы докладов и сообщений Пятой конференции “Тяжелые жидкометаллические теплоносители в ядерных технологиях”, приуроченной к 60-летию пуска в ФЭИ первого в мире реактора с теплоносителем свинец-висмут – стенда 27/ВТ

Creation of the First Domestic Nuclear Submarine with Liquid Metal Coolant. Project 645

S22

Zamukov, V.V. (JSC “Saint-Petersburg Marin Design Bureau “Malachite”, Saint-Petersburg (RU))

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The First in the World Reactor with Lead-Bismuth Coolant (Facility 27/VT). How that Started

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History of Development of Lead-Bismuth Coolant Technology for Nuclear Submarines

S21

Orlov, Yu.I. (JSC “SSC RF – IPPE”, Obninsk (RU))

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Overview of IAEA Activities in Field of Fast Reactor Technology Development: Current State and Future Vision

S22

Kriventsev, V.; Khoroshev, M.; Batra, C. (International Atomic Energy Agency (IAEA), Vienna (XA)), E-mail: V.Kriventsev@iaea.org

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Heavy Liquid Metal Coolants in Nuclear Power**S21;S22**

Toshinsky, G.I. (JSC “AKME-Engineering”, Moscow (RU); JSC “SSC RF-IPPE”, Obninsk (RU)), E-mail: toshinsky@ippe.ru

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NUCLEAR FACILITIES; REACTOR SAFETY; FAST REACTORS; COOLANTS; LIQUID METALS; LEAD; BISMUTH

SVBR-100 Project for SMR Market

S22

Petrochenko, V.V.; Grigoriev, S.A.; Dedul, A.V.; Komlev, O.G.; Kondaurov, A.V. (JSC AKME-Engineering, Moscow (RU)), E-mail: O.Komlev@svbr.org; Toshinsky, G.I. (JSC AKME-Engineering, Moscow (RU)); JSC «SSC RF-IPPE», Obninsk (RU)

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A Power Unit with the BREST-OD-300 Reactor

S22

Lemekhov, V.V.; Moiseyev, A.V.; Bazhanov, A.A.; Sarkulov, M.K.; Smirnov, V.S.; Yarmolenko, O.A.; Lemekhov, Yu.V.; Cherepnin, Yu.S.; Vasyukhno, V.P.; Afremov, D.A. (JSC NIKIET, Moscow (RU))

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NUCLEAR FACILITIES; FAST REACTORS; REACTOR OPERATION; REACTOR SAFETY; COOLANTS; LIQUID METALS

A Summary of Generation-IV Lead Fast Reactor Activities

S21

Alemberti, A. (Ansaldo Nucleare SpA, Genova (IT)); Tuček, K. (EC-Joint Research Center (JRC), Petten (XE)); Obara, T.; Kondo, M. (Tokyo Inst. of Technology (TIT), Tokyo (JP)); Moiseev, A. (JSC “NIKIET”, Moscow (RU)); Hwang, I.S. (Seoul National Univ., Seoul (KR)); Smith, C. (Naval Postgraduate School, Monterey (US)); Wu, Y.; Ming, J. (INEST, Hefei (CN))

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NUCLEAR POWER PLANTS; FAST REACTORS; COOLANTS; LEAD; LIQUID METALS; REACTOR SAFETY

Strategy and R&D Status of China Lead-based Reactor

S22

Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: yican.wu@fds.org.cn

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NUCLEAR FACILITIES; FAST REACTORS; COOLANTS; LEAD; REACTOR SAFETY; CHINA

Provision of Heavy Liquid-Metal Coolant Technology in the New Generation Reactor Systems

S22

Askhadullin, R.Sh.; Storozhenko, A.N.; Melnikov, V.P.; Legkikh, A.Yu.; Ulianov, V.V. (JSC “SSC RF – IPPE”, Obninsk (RU))

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NUCLEAR POWER PLANTS; FAST REACTORS; MYRRHA FACILITY; COOLANTS; LIQUID METALS; REACTOR SAFETY

Small-Sized Nuclear Power Plant of Ultra-Small Power for the Far North

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S21

Ivanov, N.V.; Levchenko, A.V. (Simulation Systems Ltd. (SSL), Obninsk (RU)), E-mail: NikolayIvanov@ssl.obninsk.ru; Toshinsky, G.I. (JSC "SSC RF IPPE", Obninsk (RU))

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NUCLEAR POWER PLANTS; COOLANTS; LIQUID METALS; REACTOR CORES;
NUCLEAR FUELS; FUEL ELEMENTS

Experimental Modeling of Hydrodynamics and Heat Transfer in Reactors with Heavy Liquid Metal Coolants

S22

Sorokin, A.P.; Kuzina, Ju.A.; Orlov, A.I. (Joint Stock Company "State Scientific Centre of the Russian Federation – Inst. for Physics and Power Engineering named after A.I. Leypunsky", Obninsk (RU)), E-mail: sorokin@ippe.ru

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FAST REACTORS; COOLANTS; LIQUID METALS; HEAT TRANSFER;
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Conceptual Design of External Neutron Driven Advanced Lead-Based Reactor S22

Liqin Hu; Yunqing Bai; Fang Wang; Minghuang Wang; Zhumin Zhao; Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: yican.wu@fds.org.cn

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Development and Experiment of CLEAR-S Facility for China Lead-Based Reactor

S22

Tao Zhou; Sheng Gao; Yong Song; Zhumin Zhao; Qunying Huang; Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: yican.wu@fds.org.cn

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Conceptual Design of China Lead-Based Mini-Reactor CLEAR-M

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Ming Jin; Qi Yang; Rongyuan Sa; Yong Song; Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: ming.jin@fds.org.cn

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Development and Experiment of Lead-Based Zero Power Critical/Subcritical Reactor CLEAR-0

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Chao Liu; Qingsheng Wu; Yongfeng Wang; Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui

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ZERO POWER REACTORS; COOLANTS; LEAD; REACTOR SAFETY; CONTROL ELEMENTS; EUTECTICS; CHINA

Status of HLMC Technology in CIAE

S22

Long, B.; Qin, B.; Zhang, J.Q.; Fu, X.G.; Qian, Y.Y.; Hu, Y. (China Inst. of Atomic Energy, Beijing (CN))

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NUCLEAR FACILITIES; COOLANTS; LEAD; BISMUTH; SPALLATION; CIAE

Multi-Purpose Nuclear Power Unit with an Electric Capacity of 75 MW

S22

Khorasanov, G.L.; Samokhin, D.S.; Zevyakin, A.S. (INPE NRNU MEPhI, Obninsk (RU)); Zemskov, E.A. (JSC «SSC RF-IPPE», Obninsk (RU)); Blokhin, A.I. (IBRAE RAS, Moscow (RU))

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LBE-Cooled Fast Reactor BLESS: Conceptual Core Design

S97

Ziguan Wang; Linsen Li; Yeoh Eing Yee; Yaodong Chen; Li Yuquan (State Power Investment Corporation Research Inst., Future Science Park, Beijing (CN)), E-mail:

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Neutronics, Thermal-Hydraulics and Radiation Shielding Analysis of a 300 MWth LBE-Cooled Fast Reactor Conceptual Design

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Li Linsen; Yeoh Eing Yee; Wang Ziguan; Sun Canhui; Chen Yaodong; Li Yuquan (State Power Investment Corporation Research Inst., Future Science Park, Beijing (CN)), E-mail: lilinsen@snptc.com.cn

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MONTE CARLO METHOD

Numerical Modelling of Lead-Cooled Fast Reactor Using the MCB Code

S97

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Using the KORSAR Computer Code for Modeling Thermal-Hydraulic Processes in Liquid Metal Coolants

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Benediktov, D.V.; Vakarin, A.V.; Volkova, S.N.; Danilov, I.G.; Migrov, Yu.A. (FSUE “NITI” - R&D Technological Inst. named after A.P. Alexandrov, Sosnovy Bor (RU))

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Development and Experiment of PbLi Facilities for Fusion Nuclear Technology

S21

Qunying Huang; Zhiqiang Zhu; Danna Zhou; Wangli Huang; Zunqi Xiao (Key Lab. of

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Preliminary Design for Long-life Small Modular LFR

S21

Nguyen, T.D.C.; Choe, J.; Kim, W.; Lee, D. (Dept. of Nuclear Engineering, Ulsan National Inst. of Science and Technology, Ulsan (KR)), E-mail: tungnguyen@unist.ac.kr

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Possibilities of Small Modular Reactors Loaded with Liquid Metallic Fuel

S21

Youpeng Zhang; Kaiyi Ji; Xuenong Chen; Jiaqi Liang (Inst. of Modern Physics, Fudan Univ., Shanghai (CN))

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FAST REACTORS; PEBBLE BED REACTORS; PRISMATIC CONFIGURATION; COOLANTS; LIQUID METALS; PLUTONIUM 239

Physical-Mechanical Properties, Corrosion Resistance and Technological Development of Steel EP823 for Use in the Reactor Installation BREST-OD-300

S21

Leontieva-Smirnova, M.V.; Naumenko, I.A.; Nikitina, A.A.; Skupov, M.V. (AO «VNIINM», Moscow (RU)), E-mail: IANaumenko@bochvar.ru

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FAST REACTORS; REACTOR MATERIALS; BELOYARSK-3 REACTOR; FERRITIC STEELS; MARTENSITIC STEELS; CORROSION RESISTANCE

Optimization of Manufacturing Process of Functionally Graded Composite Steels for Lead-Bismuth Cooled Fast Reactor Cladding Application

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Jeonghyeon Lee; Taeyong Kim; Ji Hyun Kim (School of Mechanical, Aerospace and Nuclear Engineering, Ulsan National Inst. of Science and Technology (UNIST), Ulsan (KR)), E-mail: kimjh@unist.ac.kr; Il Soon Hwang (Dept. of Nuclear Engineering, Seoul National Univ. (SNU), Seoul (KR))

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Optimizatsiya protsessa proizvodstva funktsional'no-gradientnykh kompozitnykh stalej dlya obolochek tvehlov bystrykh reaktorov so svintsovo-vismutovym teplonositelem

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FAST REACTORS; COOLANTS; LEAD; BISMUTH; FUEL ELEMENTS; STEELS; ZIRCONIUM BASE ALLOYS

Study on Q-value about Pilgering Process of Functionally Graded Composite Cladding for Liquid Metal Fast Cooled Reactor Application

S21

Taeyong Kim; Jeonghyeon Lee; Ji Hyun Kim (School of Mechanical, Aerospace and Nuclear Engineering, Ulsan National Inst. of Science and Technology (UNIST), Ulsan (KR)), E-mail: kimjh@unist.ac.kr; Il Soon Hwang (Dept. of Nuclear Engineering, Seoul National Univ. (SNU), Seoul (KR))

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Issledovanie Q-faktora pri piligrimovoj prokatke trub iz funktsional'no-gradientnogo kompozita dlya primeneniya v bystrykh reaktorakh s zhidkometallicheskim teplonositelem

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BASE ALLOYS; Q-VALUE

Research of Pipes from Steel 09Mn2Si to Obtain the Characteristics Necessary to Assess the Strength, Safety and Lifetime of the BREST-OD-300 Reactor Unit S21

Logashov, S.U.; Orlov, A.S.; Gavrilov, E.V.; Khaymin, S.V. (JSC «RPA «CNIITMASH», Moscow (RU))

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Innovative Sublayer in Fuel Element with Anticorrosive Properties

S21

Orlov, M.A. (ITCP «PRORYV», Moscow (RU)); Orlov, V.V. (OJSC NIKIET, Moscow (RU));

Orlova, E.A. (IATE NIYaU «MEPhI», Obninsk (RU))

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FAST REACTORS; BOR-60 REACTOR; REACTOR SAFETY; MIXED NITRIDE FUELS; LEAD; ALLOYS

Perspective Lead Alloys for the Liquid-Metal Bonding of Fast Reactors Fuel Pins

S21

Tarasov, B.A. (NRNU MEPhI, Moscow (RU)); SC «VNIINM», Moscow (RU)); Konovalov, I.I.;

Kruglov, A.B.; Ananin, V.M.; Tarasova, M.S.; Shornikov, D.P. (NRNU MEPhI, Moscow (RU));

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FAST REACTORS; COOLANTS; LIQUID METALS; LEAD ALLOYS; FUEL PINS;
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Facility GESA-4M for Electron Beam Modification of Fuel Cladding Surfaces of Reactor Plants with Heavy Liquid Metal Coolant

S21

Engelko, V.I.; Pavlov, E.P.; Tkachenko, K.I.; Shchegolikhin, N.P. (D.V. Efremov Inst. of Electrophysical Apparatus, Saint-Petersburg (RU)), E-mail: ktkachenko@mit.niiefa.spb.su
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NUCLEAR FACILITIES; COOLANTS; LIQUID METALS; FUEL ELEMENTS;
CORROSION RESISTANCE; ELECTRON SOURCES

Low Cycle Fatigue Behavior of 15-15Ti Austenitic Stainless Steel in Lead-Bismuth Eutectic and in Air at 550 °C - Effects of Dynamic Strain Aging and Surface Oxide Film

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Jie Xu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN); Univ. of Science and Technology of China, Hefei, Anhui (CN)); Jianwei Chen; Qingsheng Wu; Xiangwei Zhai; Lin Luo (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: jianwei.chen@fds.org.cn

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MATERIALS; AUSTENITIC STEELS; LEAD; BISMUTH; EUTECTICS; REACTOR MATERIALS

Results of the Investigation of the Initial Stage of Oxidation of Austenitic Steel 12X18H10T in Water Vapour

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Ivanov, K.D.; Gurbich, A.F.; Niyazov, S.-A.S. (JSC «SSC RF – Inst. for Physics and Power Engineering named after A.I. Leypunsky», Obninsk (RU)), E-mail: sniyazov@ippe.ru

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MATERIALS; AUSTENITIC STEELS; WATER VAPOR; OXIDATION; ION BEAMS;
ARRHENIUS EQUATION

Commissioning of the Liquid Lead Laboratory for Mechanical Testing at JRC Petten

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Száráz, Z.; Tuček, K.; Novotný, R. (European Commission, Joint Research Centre, Directorate G – Nuclear Safety and Security, Petten (XE)), E-mail: zoltan.szaraz@ec.europa.eu; Moilanen, P. (VTT Technical Research Centre of Finland, ESPOO, Helsinki (FI))

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Safe Controlled Storage of SVBR-100 Spent Nuclear Fuel in the Extended-Range Future

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Grigoriev, S.A.; Dedul, A.V.; Komlev, O.G. (JSC “AKME-Engineering”, Moscow(RU)); Tormyshev, I.V. (JSC “SSC RF-IPPE”, Obninsk (RU)); Toshinsky, G.I. (JSC “SSC RF-IPPE”, Obninsk (RU)); JSC “AKME-Engineering”, Moscow (RU)), E-mail: toshinsky@ippe.ru

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Petrochenko, V.V.; Grigoriev, S.A.; Dedul, A.V.; Komlev, O.G.; Kondaurov, A.V. (JSC “AKME-Engineering”, Moscow(RU)), E-mail: A.Dedul@svbr.org

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Lim, J.; Gladinez, K.; Marino, A.; Prieto, B.G.; Rosseel, K.; Aerts, A. (Belgian Nuclear Research Centre (SCK CEN), Mol (BE)), E-mail: jlim@sckcen.be

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Laser Separation of Lead Isotopes by Means of Selective Photochemical Reactions for Nuclear-Energy Facilities of the Next Generation

S21

Bortniansky, A.L.; Demidov, V.L.; Motovilov, S.A.; Podtykan, F.P.; Yudin, A.M. (Joint Stock Company «D.V. Efremova Inst. of Electrophysical Apparatus» (JSC «NIEFA»), Saint-Petersburg (RU)), E-mail: yudin@mit.niefa.spb.su

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S21

Alekseev, V.V. (JSC «SSC RF-IPPE», Obninsk (RU)), E-mail: alexeev@ippe.ru; Orlova, E.A. (IATE MEPhI, Obninsk (RU))

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Kebadze, B.V.; Lagutin, A.A.; Shurupov, V.A.; Generalov, E.V.; Fomin, A.N. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: vshurupov@ippe.ru

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Usov, Eh.V.; Kudashov, I.G.; Mosunova, N.A.; Sorokin, A.A.; Chukhno, V.I. (FGBUN Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki RAN, Novosibirskij Filial, Novosibirsk (RU)), E-mail: usovev@gmail.com

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155 p.

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Osipov, A.A. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: osipov@ippe.ru

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Osipov, A.A.; Ivanov, K.D.; Lavrova, O.V. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: osipov@ippe.ru

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155 p.

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Osipov, A.A.; Ivanov, K.D. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: osipov@ippe.ru

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155 p.

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Lavrova, O.V.; Ivanov, K.D.; Legkikh, A.Yu. (JSC «SSC RF - IPPE», Obninsk (RU))

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Askhadullin, R.Sh.; Legkikh, A.Yu. (JSC «SSC RF - IPPE», Obninsk (RU))

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Ivanov, I.I.; Shelemetiev, V.M.; Askhadullin, R.Sh.; Skobeev, D.A. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: iivanov@ippe.ru

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Shelemet'ev, V.M.; Ivanov, I.I.; Askhadullin, R.Sh.; Kuzin, P.V. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: iivanov@ippe.ru

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Pershin, P.S.; Batukhtin, V.P.; Arkhipov, P.A.; Zaikov, Yu.P. (Inst. of High-Temperature Electrochemistry, Ural Branch of Russian Academy of Sciences, Yekaterinburg (RU)), E-mail: paffka19@yandex.ru

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Grabezhnaya, V.A.; Mikheyev, A.S. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: gva@ippe.ru

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155 p.

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HEAT TRANSFER; THERMAL HYDRAULICS

Multi-Physics CFD Modeling for Design and Safety Analysis of Lead Bismuth Eutectic Cooled Nuclear Reactors

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Marino, A.; Gladinez, K.; Gonzalez, B.; Lim, J.; Rosseel, K.; Aerts, A. (SCK CEN, Mol (BE))

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155 p.

RESEARCH AND TEST REACTORS; MYRRHA FACILITY; COOLANTS; EUTECTICS;
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Hydrodynamic Properties of Flow Parts in Various Types of Nuclear Power Unit Header Systems

S21

Del'nov, V.N. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: delnov@ippe.ru

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8-10 Oct 2018

Pyataya konferentsiya “Tyazhelye zhidkometallicheskie teplonositeli v yadernykh tekhnologiyakh (TZhMT-2018)”

Osobennosti gidrodinamiki protochnykh chastej razlichnykh tipov kollektornykh sistem yadernykh ehnergeticheskikh ustanovok

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155 p.

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Numerical on Flow-induced Vibration of Fuel Rods Subjected to Turbulent Flow in Lead-based Reactor

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Guowei Yang (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN); Univ. of Science and Technology of China, Hefei, Anhui (CN)); Jianwei Chen; Feng Lin; Huaping Mei; Qingsheng Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: jianwei.chen@fds.org.cn

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Chislennoe issledovanie indutsirovannoy potokom vibratsii teplovydelyayushchikh ehlementov pod dejstviem turbulentnogo potoka v reaktore so svintsovym teplonositelem

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155 p.

REACTORS; COOLANTS; LIQUID METALS; EUTECTICS; LEAD; BISMUTH; COMPUTERIZED SIMULATION

Heat Removal Performance Study of Reactor Vessel Air Cooling System Based on Small Modular Lead-based Reactor

S21

Guowei Wu; Jin Wang; Ming Jin; Yong Song; Yican Wu (Key Lab. of Neutronics and Radiation Safety, Inst. of Nuclear Energy Safety Technology, Chinese Academy of Sciences, Hefei, Anhui (CN)), E-mail: jin.wang@fds.org.cn

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Issledovanie kharakteristik otvoda ostatochnogo teplovydeleniya sistemy vozdušnogo okhlazhdeniya korpusa reaktora s ispol'zovaniem modul'nogo reaktora maloj moshchnosti so svintsovym teplonositelem

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Volatilisation of 1^{34}C_s , 1^{311} and 2^{10}Po from Lead Bismuth Liquid Metal Solutions Studied by the Transpiration Method

S21

Danilov, I.I.; Eichler, R. (LRC, Paul Scherrer Inst., Villigen (CH); Univ. of Berne, Berne (CH)), E-mail: ivan.danilov@psi.ch; Neuhausen, J.; Voegele, A.; Hermann, D.; Dressler, R. (LRC, Paul Scherrer Inst., Villigen (CH)); Türler, A. (Univ. of Berne, Berne (CH)); Müller, E. (LBR, Paul Scherrer Inst., Villigen (CH))

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Polonium Activity Release from Heavy Liquid Metal Coolant into Gaseous Phase S21

Gonchar, N.I.; Pankratov, D.V. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: nigon@ippe.ru
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Lead-Containing Coolants in Advanced Technologies of Solid, Liquid and Gaseous Raw Material Processing

S21

Ul'yanov, V.V.; Askhadullin, R.Sh.; Mel'nikov, V.P.; Gulevskiy, V.A.; Koshelev, M.M.; Storozhenko, A.N. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: vulyanov@ippe.ru

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Application of HLMC in the Technology of Metal Radioactive Waste Processing S12

Voronin, I.A.; Melnikov, V.P.; Yagodkin, I.V.; Posazhennikov, A.M.; Legkikh, A.Yu.; Nikolaev, A.N. (Joint Stock Company «State Scientific Centre of the Russian Federation – Inst. for Physics and Power Engineering named after A.I. Leypunsky», Obninsk (RU))

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Skomorokhova, S.N.; Trifanova, E.M.; Sitnikov, I.V.; Nikolaev, A.N.; Askhadullin, R.Sh. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: isitnikov@ippe.ru

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155 p.

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Potential of Heavy Liquid-Metal Coolant Application in High-Power Density Heat Exchangers

S21

Koshelev, M.M.; Ul'yanov, V.V.; Konovalov, M.A.; Gulevskiy, V.A.; Kharchuk, S.E. (JSC «SSC RF - IPPE», Obninsk (RU)), E-mail: mkoshelev@ippe.ru

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Sankt-Peterburg (RU)
Chelovek i ego zdorov'e
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244 p.
(RU, EN)

LEADING ABSTRACT; MEETINGS; COMPUTERIZED TOMOGRAPHY; MAGNETIC RESONANCE; X RADIATION; BIOMEDICAL RADIOGRAPHY; INJURIES; DISEASES; DIAGNOSIS

In the collection there are the abstracts of the reports of Congress of the Russian Society of radiology which took place in Moscow on November, 8-10, 2017. The possibilities of using of computerized and magnetic-resonance tomography, X and ultrasonic radiation in diagnostics of diseases and injuries of various organs are under consideration

В сборнике представлены тезисы докладов Конгресса Российского общества рентгенологов и радиологов, который проходил в Москве 8-10 ноября 2017 г. Рассмотрены возможности использования компьютерной и магнитно-резонансной томографии, рентгеновского и ультразвукового излучения в диагностике заболеваний и повреждений различных органов

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Zhukov, O.B. (Research Inst. of Urology and Interventional Radiology n.a. N.A. Lopatkin, Moscow (RU)); Astafyeva, L.I. (Association of Vascular Urologists and Reproductologists, Moscow (RU)); Babushkina, E.V. (Peoples' Friendship Univ. of Russia, Moscow (RU))

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Radiological diagnosis of patients with recurrent varicocele

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Imaging of eye foreign bodies of plant origin in penetrating eyeball injuries

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Abdulaev, Sh.K.; Ipatov, V.V.; Kudryavtseva, A.V. (Voenno-meditsinskaya Akademiya im. S.M. Kirova, Sankt-Peterburg (RU))

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Comparative analysis of modern research methods in detecting of metastatic lesions in the liver in uveal melanoma patients

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Avakyan, K.V.; Saakyan, S.V.; Amiryanyan, A.G. (Moskovskij Nauchno-Issledovatel'skij Inst. Glaznykh Boleznej im. Gel'mgol'tsa, Moscow (RU)); Aslanidi, I.P.; Mukhortova, O.V. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Serdechno-Sosudistoj Khirurgii im. A.N. Bakuleva, Moscow (RU))

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CT and morphological approaches for the assessment of gastric cancer response to neoadjuvant therapy

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Agababyan, T.A.; Silant'eva, N.K.; Mozerov, S.A.; Novikov, N.Yu.; Skoropad, V.Yu. (Meditsinskij Radiologicheskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU)); Komin, Yu.A. (Glavnyj Klinicheskij Voennyj Gospital' FSB RF, Golitsyno (RU))

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The role of ergography examination in the diagnosis of abnormalities of the colon development in children with chronic colostasis

S62

Akilov, Kh.A.; Saidov, F.Kh. (Tashkentskij Inst. Usovershenstvovaniya Vrachej, Tashkent (UZ); Respublikanskij Nauchnyj Tsentr Ehkstrennoj Meditsinskoj Pomoshchi, Tashkent (UZ))

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Alieva, G.S.; Korzhenkova, G.P. (Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Onkologii im. N.N. Blokhina, Moscow (RU))

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Amankulov, Zh.M.; Ajnakulova, A.S. (Kazakhskij Natsional'nyj Meditsinskij Univ. im. S.D. Afsendiyarova, Almaty (KZ); Kazakhskij Nauchno-Issledovatel'skij Inst. Onkologii i Radiologii, Almaty (KZ))

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(Natsional'nyj Meditsinskij Issledovatel'skij Tsentr Psikhiatrii i Nevrologii im. V.M. Bekhtereva, Sankt-Peterburg (RU))

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Meditsinskij Univ., Vladivostok (RU)); Zhukov, V.S. (Kraevoj Klinicheskij Tsentr

Spetsializirovannykh Vidov Meditsinskoj Pomoshchi, Vladivostok (RU))

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Arpent'eva, M.R. (Kaluzhskij Gosudarstvennyj Univ. im. K.Eh. Tsiolkovskogo, Kaluga (RU))

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Afanasova, N.V.; Silant'eva, N.K.; Bogatyreva, T.I.; Terekhova, A.Yu.; Agababyan, T.A.; Shakhtarina, S.V.; Shavladze, Z.N. (Meditinskij Radiologicheskij Nauchnyj Tsentr im. A.F. Tsyba, Obninsk (RU))

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Afanas'eva, N.G.; Kalantaev, D.B. (Chelyabinskij Oblastnoj Klinicheskij Onkologicheskij Dispanser, Chelyabinsk (RU))

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Akhlebinina, M.I. (Nauchno-Issledovatel'skij Inst. Neotlozhnoj Detskoj Khirurgii i Travmatologii, Moscow (RU)); Blokhin, I.A. (Inst. Khirurgii im. A.V. Vishnevskogo, Moscow (RU))

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Babushkina, E.V. (Detskaya Gorodskaya Poliklinika No.7, Moscow (RU); Rossijskij Univ. Druzhy Narodov, Moscow (RU)); Zhukov, O.B. (Nauchno-Issledovatel'skij Inst. Urologii i Interventsionnoj Radiologii im. N.A. Lopatkina, Moscow (RU); Rossijskij Univ. Druzhy Narodov, Moscow (RU)); Sinitsin, V.E. (Lechebno-Reabilitatsionnyj Tsentr, Moscow (RU)); Rudin, Yu.Eh. (Nauchno-Issledovatel'skij Inst. Urologii i Interventsionnoj Radiologii im. N.A. Lopatkina, Moscow (RU)); Romanov, D.V. (Detskaya Gorodskaya Klinicheskaya Bol'nitsa Svyatogo Vladimira, Moscow (RU))

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Bagdasarova, I.G.; Arabadzhan, M.S. (Al'fa-Tsentr Zdorov'ya, Rostov-na-Donu (RU))

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Bajborodina, I.V. (Kliniko-Diagnosticheskiy Tsentr «Ritm», Ulan-Udeh (RU)); Zavadovskaya, V.D.; Zhukova, N.G. (Sibirskij Gosudarstvennyj Meditsinskij Univ., Tomsk (RU))

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Bakunovich, A.V.; Sinitsyn, V.E.; Grigoryan, Yu.A. (Lechebno-Reabilitatsionnyj Tsentr Minzdrava Rossii, Moscow (RU))

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Barmina, T.G.; Sharifullin, F.A.; Pogodina, A.N. (Nauchno-Issledovatel'skij Inst. Skoroj Pomoshchi im. N.V. Sklifosovskogo, Moscow (RU))

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