

Journal "Problems of Atomic Science and Technology. Series: Thermonuclear Fusion"  
CONTENTS (2021, Volume 44, Issue 2)

<i>Kuteev B.V.</i> <a href="#">4th International conference on fusion-fission subcritical hybrid systems</a> .....	5
<i>Kuteev B.V., Shpanskiy Yu.S. and DEMO-FNS Team.</i> <a href="#">Fusion-fission hybrid system development and integration into russia's nuclear power engineering</a> .....	7
<i>Medvedev S.Yu., Martynov A.A., Kuteev B.V., Dnestrovskij A.Yu., Drozdov V.V.</i> <a href="#">Tokamaks with external X-points: stability limits and new prospects</a> .....	15
<i>Kulikov G.G., Shmelev A.N., Apse V.A., Kulikov E.G.</i> <a href="#">Potential role of fusion neutron source in nuclear power systems</a> .....	21
<i>Burgio N., Carta M., Fabrizio V., Falconi L., Gandini A., Gatto R., Peluso V., Santoro E., Sciarretta M.B.</i> <a href="#">Subcriticality monitoring in fusion-fission hybrid reactors</a> .....	27
<i>Panza F., Carta M., Cemmi A., Cherubini N., Fabrizio V., Falconi L., Filippi F., Grasso G., Orsitto F.P., Peluso V.</i> <a href="#">Set up of a deterministic calculation model for the analysis of fusion-fission hybrid systems</a> .....	42
<i>Orsitto F.P., Romanelli M., Vinay M.</i> <a href="#">High field tokamaks as compact neutron sources</a> .....	47
<i>Ciotti M., Panza F., Cardinali A., Gatto R., Ramogida G., Lomonaco G., Ricco G., Ripani M., Osipenko M.</i> <a href="#">Novel hybrid pilot experiment proposal for a fusion-fission subcritical coupled system</a> .....	57
<i>Ananyev S.S., Dnestrovskij A.Yu., Kukushkin A.S.</i> <a href="#">Integrated modeling of fuel flows in the plasma and the injection and pumping systems for the DEMO-FNS fusion neutron source</a> .....	65
<i>Orsitto F.P., Angelone M., Tardocchi M.</i> <a href="#">Diagnostics and control of fusion-fission hybrid tokamak-based reactors: the technology for measurement systems</a> .....	78
<i>Panasenkov A.A., Ananyev S.S., Dlongach E.D., Kuteev B.V.</i> <a href="#">Analysis of the setup and parameters of the FNS-ST tokamak fast atom injector</a> .....	86
<i>Dlongach E.D., Panasenkov A.A., Kuteev B.V., Filimonova E.A.</i> <a href="#">Neutral beam current ratio in the neutron source FNS-ST</a> .....	100
<i>Greaznevich M., Nicolai A., Chuyanov V. and Tokamak Energy Ltd. Team.</i> <a href="#">St40 progress towards optimized neutron production</a> .....	107
<i>Moiseenko V.E., Chernitskiy S.V., Ågren O., Dreval N.B., Slavnyj A.S., Kovtun Yu.V., Lozin A.V., Pavlichenko R.O., Shapoval A.N., Korovin V.B., Kozulya M.M., Zamanov N.V., Krasiuk A.Yu., Siusko Yu.V., Garkusha I.E.</i> <a href="#">Developments for stellarator-mirror fusion-fission hybrid concept</a> .....	111
<i>Ågren O., Moiseenko V.E.</i> <a href="#">3d coils for a compact min B mirror field with minimal flux tube ellipticity</a> .....	118
<i>Kulikov G.G., Shmelev A.N., Kruglikov A.E., Apse V.A., Kulikov E.G.</i> <a href="#">Fusion neutron source as an effective producer of non-traditional nuclear fuel</a> .....	124
<i>Moiseenko V.E., Chernitskiy S.V., Ågren O.</i> <a href="#">Americium and curium burnup in a fusion reactor</a> .....	133
<i>Shlenskii M.N., Kuteev B.V.</i> <a href="#">Applications of fusion-fission hybrid systems for nuclear fuel cycle</a> .....	139
<i>Bykov T.A., Ivanov A.A., Kasatov D.A., Kolesnikov Ia.A., Koshkarev A.M., Ostreinov G.M., Makarov A.N., Shchudlo I.M., Sokolova E.O., Taskaev S.Yu.</i> <a href="#">High flux accelerator-based neutron source</a> .....	145
<i>Sivak A.B., Demidov D.N., Sivak P.A.</i> <a href="#">Diffusion characteristics of radiation defects in iron: molecular dynamics data</a> .....	148
<i>Gasparyan Yu., Bachurina D., Begrambekov L., Krat S., Kurnaev V., Litnovsky A., Ogorodnikova O., Pisarev A., Sevryukov O., Suchkov A.</i> <a href="#">NRNU MEPHI activity towards fusion-fission hybrid systems (short message)</a> .....	158

<i>Piovan R., Agostinetti P., Bustreo C., Bruno F., Cavazzana R., Cemmi A., Cherubini N., Ciotti M., Escande D.F., Gaio E., Iacovacci R., Lombardi G., Lomonaco G., Lunardon F., Marzo G.A., Maistrello A., Mancini E., Mariani A., Mingrone G., Osipenko M., Panza F., Puiatti M.E., Ricco G., Ripani M., Valisa M., Vignaroli T., Zollino G., Zuin M.</i> <a href="#">Pilot FFHR based on a RFP as a fusion core</a> (short message) .....	159
<i>Skokov V.G., Sergeev V.Yu., Anufriev E.A., Kuteev B.V.</i> <a href="#">Comparison of lithium divertor options for DEMO-FNS tokamak</a> (short message).....	161
<i>Yakovlev D., Akhmetov T., Bagryansky P., Chen Z., Ivanov A., Kotelnikov I., Kuzmin E., Prikhodko V., Shikhovtsev I., Zeng Q.</i> <a href="#">Design and research program of the ALIANCE-T experiment</a> (short message) .....	162
<i>Wu Y.</i> <a href="#">Development and applications of HINEG high intensity neutron sources</a> (short message).....	163
<i>Yang W., Zeng Q., Chen Ch., Chen Zh., Song J., Wang Zh., Yu J., Yakovlev D., Prikhodko V.</i> <a href="#">Shielding design and neutronics calculation of the GDL based fusion neutron source ALIANCE</a> (short message).....	164
<i>Prikhodko V.V., Chen Z., Kotelnikov I.A., Yakovlev D.V., Yu J., Zeng Q.</i> <a href="#">Simulation of plasma parameters for alliance project</a> (short message) .....	166
<i>Ogorodnikova O.V., Majerle M., Čížek J., Simakov S., Gann V.V., Hruška P., Kameník J., Pospíšil J., Štefánik M., Vinš M., Štursa J.</i> <a href="#">Radiation defect formation in BCC metals irradiated with high energy protons, self-ions and neutrons with different spectra</a> (short message) .....	167
<a href="#">In Memoriam of Yuriy Grigorjevich Kalinin</a> .....	169
<a href="#">In Memoriam of Georgiy Ivanovich Dolgachev</a> .....	170
<a href="#">In Memoriam of Vladimir Vasilevich Arsenin</a> .....	171
<a href="#">In Memoriam of Alexander Ivanovich Ryazanov</a> .....	173
<a href="#">In Memoriam of Alexander Alekseevich Skovoroda</a> .....	175
<a href="#">In Memoriam of Andrej Alekseevich Borisov</a> .....	176