



Conference Program, March 5, 2017

Oral Session 16:00

Chairman

Prof. V. B. Mintsev

- 16:00 Brightness temperature and specific conductivity of multiple shocked initially gaseous protium and deuterium up to 0.4 TPa
Ternovoi Vladimir Yakovlevich (IPCP RAS, Chernogolovka, Russia), Nikolaev D. N., Pyalling A. A., Shutov A. V.
- 16:15 Heat transfer under high-power heating of liquids: an experience of monitoring of oils
Volosnikov Dmitriy Vladimirovich (ITP UB RAS, Ekaterinburg, Russia), Povolotskiy I. I., Skripov P. V.
- 16:30 Experimental investigation of thermal expansion of graphite at high temperatures
Senchenko V. N., Belikov Roman Sergeevich (JIHT RAS, Moscow, Russia)
- 16:45 Atomistic simulations of phase and structure transitions and defects formation at swift heavy ion irradiation in uranium-molybdenum alloy
Kolotova Lada Nikolaevna (JIHT RAS, Moscow, Russia), Starikov S. V.
- 17:00 The online database for thermodynamic properties of individual substances IVTANTHERMO-Online
Belov G. V., Dyachkov S. A., Levashov P. R., Lomonosov I. V., Minakov D. V., Morozov Igor Vladimirovich (JIHT RAS, Moscow, Russia), Smirnov V. N.
- 17:15 Molecules ionization at phase transition in warm dense hydrogen
Norman Genri Edgarovich (HSE, Moscow, Russia), Saitov I. M.

17:30



COFFEE-BREAK

Chairman

Prof. L. G. Dyachkov

- 17:45 New opportunities for studies of ultracold Rydberg atoms with many-photon coherent spectroscopy
Zelener Boris Borisovich (JIHT RAS, Moscow, Russia), Saakyan S. A., Sautenkov V. A., Vilshanskaya E. V., Manykin E. A., Zelener B. V., Fortov V. E.
- 18:00 Approach to produce antihydrogen atoms with low kinetic energy in magnetic traps
Bobrov Andrei Alexandrovich (JIHT RAS, Moscow, Russia), Bronin S. Ya., Zelener B. B., Zelener B. V.
- 18:15 Electric characteristic measurements in high-current high-pressure discharge with current amplitude of 590–1200 kA by magnetic probe
Bogomaz A. A., Pinchuk Mikhail Ernestovich (IEE RAS, Saint-Petersburg, Russia), Budin A. V., Leks A. G., Leontev V. V., Pozubenkov A. A.
- 18:30 On DD and $p + {}^{11}\text{B}$ “burning” at inertial electrostatic confinement fusion scheme based on nano-second vacuum discharge: Experiment and particle-in-cell simulations
Kurilenkov Yuri Konstantinovich (JIHT RAS, Moscow, Russia), Tarakanov V. P., Gus’kov S. Yu., Oginov A. V., Samoylov I. S., Karpukhin V. T.
- 18:45 On the parameters of the diffused vacuum arc with cerium oxide hot cathode
Amirov R. Kh., Gavrikov A. V., Liziakin G. D., Polistchook V. P., Pershin D. A., Samoylov I. S., Smirnov V. P., Usmanov Ravil Anatolievich (JIHT RAS, Moscow, Russia), Vorona N. A., Yartsev I. M.


19:00



SUPPER

Chairman

Dr. K. V. Khishchenko

- 20:00 The methods investigation of dusty plasma environment near lunar surface
Dolnikov Gennady Gennadievich (IKI RAS, Moscow, Russia), Zakharov A. V., Kuznetshov I. A., Lyash A. N., Popel S. I., Bednjakov S. A.
- 20:15 Modification and destruction of the coulomb cluster in a cusp magnetic trap at gradual increase its charge
Dyachkov Lev Gavriilovich (JIHT RAS, Moscow, Russia), Petrov O. F., Vasiliev M. M., Myasnikov M. I., Fortov V. E., Ramazanov T. S., Dzhumagulova K. N., Gabdullin M. T., Dosbolayev M. K., Ussenov Y. A., Moldabekov Zh. A., Savin S. F., Musabaev T. A., Zhantayev Zh. Sh., Aimbetov A. A.
- 20:30 Macroions non-linear screening in complex plasma
Martynova Inna Aleksandrovna (JIHT RAS, Moscow, Russia), Iosilevskiy I. L., Shagayda A. A.
- 20:45 Screening dust particle charge in an e -beam created humid air plasma
Filippov Anatoly Vasilievich (SRC RF TRINITI, Troitsk, Russia), Derbenev I. N., Kurkin S. A.
- 21:00 Investigation of the excited state population density of electric propulsion thruster plasma in 3D by laser induced fluorescence
Krivoruchko Dariya Dmitrievna (MIPT, Dolgoprudny, Russia), Skrylev A. V., Skorokhod E. P., Gorshkov O. A.
- 21:15 Spatial-temporal diagnostics of the “plasma jet–surface of heat resistant material” system
Sargsyan M. A., Chinnov V. F., Gadzhiev M. Kh., Khromov M. A., Kavyrshin D. I., Chistolinov Andrey Vladimirovich (JIHT RAS, Moscow, Russia)
- 21:30 **CLOSING CEREMONY**
Concluding words by V. P. Efremov, K. V. Khishchenko, A. P. Savintsev
- 21:45– **COFFEE-END**
22:00