



Conference Program, March 5, 2015

Oral Session 16:00

Chairman

Dr. V.P.Efremov

- 16:00 Spin crossover and Mott–Hubbard transition under high pressure and high temperature in the low mantle of the Earth
Ovchinnikov Sergei Gennadievich (KIP SB RAS, Krasnoyarsk, Russia), Ovchinnikova T. M.
- 16:15 Melting curves of ionic crystals in quasiharmonic approximation
Krasnova Polina Andreevna (JIHT RAS, Moscow, Russia), Minakov D. V., Levashov P. R.
- 16:30 Diamond melting at negative pressures
Basharin Andrey Yurievich (JIHT RAS, Moscow, Russia), Levashov P. R., Dozhdikov V. S.
- 16:45 Surface tension and viscosity of nuclei in liquid drop model
Khokonov Azamat Khazret-Alievich (KBSU, Nalchik, Russia)
- 17:00 Dense systems viscosity
Kirova Elena Mikhailovna (JIHT RAS, Moscow, Russia), Norman G. E.

17:15



COFFEE-BREAK

Chairman

Prof. L.G.Dyachkov

- 17:30 Plasma phase transition in warm dense hydrogen
Norman Genri Edgarovich (JIHT RAS, Moscow, Russia), Saitov I. M., Stegailov V. V.
- 17:45 Brewster angle of shock-compressed xenon plasmas
Norman G. E., Saitov Ilnur (JIHT RAS, Moscow, Russia)
- 18:00 One-electron model of the high-frequency dielectric permeability of dense plasmas
Lankin Alexander Valerievich (JIHT RAS, Moscow, Russia), Norman G. E., Saitov I. M.
- 18:15 On the axial and transverse cooling rates of an antiproton in positron gas in strong magnetic field
Bobrov Andrei Alexandrovich (JIHT RAS, Moscow, Russia), Bronin S. Ya., Khikhlukha D. R., Zelener B. B., Zelener B. V.
- 18:30 Experimental techniques and numerical simulations for study of Rydberg matter and ultracold plasma
Zelener Boris Borisovich (JIHT RAS, NRNU MEPhI, Moscow, Russia), Saakyan S. A., Sautenkov V. A., Butlitsky M. A., Bobrov A. A., Bronin S. Ya., Khikhlukha D. R., Zelener B. V., Fortov V. E.
- 18:45 Calculating thermodynamical properties of two component “shelf Coulomb” plasma model using Gibbs statistical ensemble Monte Carlo technique
Butlitsky Michael Anatolievich (JIHT RAS, Moscow, Russia), Zelener B. V., Zelener B. B.

19:00




SUPPER

Chairman

Prof. G.E.Norman

- 20:00 Measurement of ion energy losses in gas-discharge plasma
Gavrilin Roman Olegovich (SSC RF ITEP, Moscow, Russia), Savin S. M., Rudskoy I. V., Golubev A. A., Kuznetsov A. P.
- 20:15 Radiative spectra of dense hydrogenic plasma: line-to-continuum transition problem
Dyachkov Lev Gavriilovich (JIHT RAS, Moscow, Russia)
- 20:30 The electrostatic interaction of two charges in equilibrium plasmas within the Debye approximation
Filippov Anatoly Vasilievich (SRC RF TRINITI, Troitsk, Russia)
- 20:45 Determination of the charge and the mass of a single microparticle in the electrodynamic trap
Syrovatka Roman Aleksandrovich (JIHT RAS, Moscow, Russia), Pecherkin V. Ya., Lapitsky D. S., Deputatova L. V., Vladimirov V. I.

- 21:00 Effective forces and pseudopotential wells and barriers in the linear paul trap
Lapitsky Dmitry Sergeevich (JIHT RAS, Moscow, Russia)
- 21:15 Relaxation time in a model of dusty plasma
Timofeev Alexey Vladimirovich (JIHT RAS, Moscow, Russia)
- 21:30 On melting density gap and non-congruence of phase transitions in models of dusty and colloid plasmas
Martynova Inna Aleksandrovna (JIHT RAS, Moscow, Russia), Iosilevskiy I. L.
- 21:45 High-current channel structure at high density gas
Pinchuk Mikhail Ernestovich (IEE RAS, Saint-Petersburg, Russia), Bogomaz A. A., Budin A. V., Leont'ev V. V., Leks A. G., Pozubenkov A. A., Rutberg Ph. G.
- 22:00 Confining boundary conditions for simulation of interacting fermions by antisymmetrized wave packet molecular dynamics
Valuev Ilya Alexandrovich (JIHT RAS, Moscow, Russia), Morozov I. V.
- 22:15 Dynamics of electrons in laser produced cluster nanoplasma
Bystrtyi R. G. (JIHT RAS, Moscow, Russia), Morozov I. V.
- 22:30 The study of electron impact ionization processes of substance, which simulate the components of a spent nuclear fuel
Smirnov V. P., Antonov Nikolay Nikolaevich (MIPT, Dolgoprudny, Russia), Bochkarev E. I., Gavrikov A. V., Samokhin A. A.
- 22:45 The stationary vacuum arc on non-thermionic hot cathode
Amirov R. Kh., Antonov N. N., Vorona N. A., Gavrikov A. V., Liziakin G. D., Polistchook V. P., Samoylov I. S., Smirnov V. P., Usmanov Ravil Anatolievich (MIPT, Dolgoprudny, Russia), Yartsev I. M.
- 23:00 **CLOSING CEREMONY**
Concluding words by A. P. Savintsev, V. P. Efremov, K. V. Khishchenko
- 23:15  **COFFEE-END**