



Conference Program, March 5, 2016

Oral Session 16:00

Chairman

Prof. L. G. Dyachkov

- 16:00 Similarity in exploding wires simulated by molecular dynamics and smoothed particle hydrodynamics
Egorova Maria Sergeevna (VNIIA(S), Moscow, Russia), Tkachenko S. I., Dyachkov S. A., Parshikov A. N., Zhakhovsky V. V.
- 16:15 Molecular dynamics simulation of primary radiation damage in Fe-Cr alloy
Zolnikov Konstantin Petrovich (ISPMS SB RAS, Tomsk, Russia), Korchuganov A. V., Kryzhevich D. S.
- 16:30 Influence of optical non-uniformity on the reflectance of dense plasmas
Norman G. E., Saitov Ihnur Minnigazievich (JIHT RAS, Moscow, Russia)
- 16:45 Reflecting boundary conditions for classical molecular dynamics simulations of nonideal plasmas
Lavrinenko Yaroslav Sergeevich (JIHT RAS, Moscow, Russia), Morozov I. V., Valuev I. A.

17:00  **COFFEE-BREAK**

Chairman

Prof. G. E. Norman

- 17:15 Thermionic emission from nanoplasma
Bystryi Roman (JIHT RAS, Moscow, Russia), Morozov I. V.
- 17:30 Gas-liquid type phase transition in modified pseudopotential and “shelf Coulomb” ultracold plasma models
Butlitsky Michael Anatolyevich (JIHT RAS, Moscow, Russia), Zelener B. B., Zelener B. V.
- 17:45 On the temperature of antihydrogen formed in magnetic trap
Bobrov Andrei Alexandrovich (JIHT RAS, Moscow, Russia), Bronin S. Y., Manykin E. A., Zelener B. B., Zelener B. V., Khikhlyukha D. R.
- 18:00 Dipole-dipole interaction between Rydberg atoms
Zelener Boris Vigdorovich (JIHT RAS, Moscow, Russia), Bronin S. Y., Dyachkov L. G., Klyarfeld A. B.
- 18:15 Study of Rydberg states of the lithium atoms
Zelener Boris Borisovich (JIHT RAS, Moscow, Russia), Saakyan S. A., Sautenkov V. A., Zelener B. V., Fortov V. E.
- 18:30 Interaction in equilibrium plasmas of charged macroparticles located in nodes of cubic lattices
Filippov Anatoly Vasilievich (SRC RF TRINITI, Troitsk, Russia)
- 18:45 Dusty plasma as unique object of collisional plasma physics
Norman G. E., Timofeev Alexey Vladimirovich (JIHT RAS, Moscow, Russia)

19:00  **SUPPER**

Chairman

Dr. V. P. Efremov

- 20:00 Dynamics and ordering in small systems of interacting particles
Koss Xeniya Georgievna (JIHT RAS, Moscow, Russia), Petrov O. F., Myasnikov M. I., Statsenko K. B., Vasiliev M. M.
- 20:15 Problem of phase transitions and thermodynamic stability in complex (dusty, colloid etc) plasmas
Martynova Inna Aleksandrovna (JIHT RAS, Moscow, Russia), Iosilevskiy I. L.
- 20:30 Effect of an electric field on a Coulomb cluster confined in a cusp magnetic trap under microgravity conditions
Dyachkov Lev Gavriilovich (JIHT RAS, Moscow, Russia), Myasnikov M. I., Petrov O. F., Vasiliev M. M., Fortov V. E., Savin S. F., Serova E. O.

- 20:45 Ionization instability of the elongated dusty cloud in the gas discharge uniform positive column under microgravity conditions
Zobnin Andrey Vjacheslavovich (JIHT RAS, Moscow, Russia), Usachev A. D., Lipaev A. M., Petrov O. F., Fortov V. E., Pustynnik M. Yu., Fink M. A., Thomas H. M.
- 21:00 The parameters affecting the potential of the plasma column in the reflex discharge
Liziakin Gennadii Dmitrievich (JIHT RAS, Moscow, Russia), Gavrikov A. V., Usmanov R. A., Smirnov V. P.
- 21:15 Neuromorphic approach for information processing of image reconstruction
Manykin Eduard Anatolievich (NRC KI, Moscow, Russia), Grichuk E. S., Kuzmina M. G.
- 21:30 **CLOSING CEREMONY**
Concluding words by A. P. Savintsev, V. P. Efremov, K. V. Khishchenko

21:45–
22:00  **COFFEE-END**