



Conference Program, March 5, 2014

Oral Session 16:00

Chairman

Dr. P.R.Levashov

- 16:00 Experimental study of poly- and monocrystalline synthetic diamond at negative pressures using picosecond laser pulses
Krasyuk I. K., Abrosimov S. A., Bazhulin A. P., Fortov V. E., Khishchenko Konstantin Vladimirovich (JIHT RAS, Moscow, Russia), Khomich A. A., Konov V. I., Pashinin P. P., Ralchenko V. G., Semenov A. Yu., Sovyk D. N., Stuchebryukhov I. A.
- 16:15 Electron bunches acceleration in guiding structures under non-symmetrical coupling conditions
Veysman Mikhail (JIHT RAS, Moscow, Russia), Andreev N. E., Kuznetsov S. V.
- 16:30 3D PIC modeling of ion acceleration from thin foils under the action of femtosecond laser pulses: convergence of results and comparison with experiment
Pugachev Leonid Petrovich (JIHT RAS, Moscow, Russia), Levashov P. R., Andreev N. E.
- 16:45 Spalls formation in the thin polycrystalline targets under the action of the high-power laser pulse
Timofeev Ivan Sergeevich (MIPT, Dolgoprudny, Russia), Burdonsky I. N., Goltsov A. Yu., Makarov K. N., Leonov A. G., Yufa V. N.
- 17:00 The glass nano-composites laser ablation destruction studies
Shemanin Valery Gennad'evich (KubSTU NPI, Novorossiysk, Russia), Atkarskaya A. B., Mkrtychev O. V., Privalov V. E.

17:15  **COFFEE-BREAK**

Chairman

Prof. L.G.Dyachkov


- 17:30 Explosion of double-layer conductors in fast-rising high magnetic fields
Oreshkin V. I., Chaikovskiy S. A., Datsko I. M., Labetskaya Natalia Anatolievna (TPU, Tomsk, Russia), Ratakhin N. A.
- 17:45 Magnetic probe diagnostics in powerful high pressure discharge
Pinchuk Mikhail Ernestovich (IEE RAS, Saint-Petersburg, Russia), Budin A. V., Leont'ev V. V., Leks A. G., Bogomaz A. A., Rutberg Ph. G., Pozubenkov A. A.
- 18:00 Simulating pulsed magnetic field of lightning for forming dense plasma
Vlasov Alexander Nikolaevich (RSREU, Ryazan, Russia), Dubkov M. V., Burobin M. A., Manoshkin A. B., Zhimoloskin S. V., Potashevsky S. S.
- 18:15 Study of ultracold plasma and Rydberg atoms in a magnetic field
Zelener Boris Borisovich (JIHT RAS, NRNU MEPhI, Moscow, Russia), Bobrov A. A., Saakyan S. A., Butlitsky M. A., Khikhlukha D. R., Sautenkov V. A., Zelener B. V., Fortov V. E.
- 18:30 Proton energy relaxation in electron gas in uniform magnetic field
Bobrov Andrei Alexandrovich (JIHT RAS, Moscow, Russia), Bronin S. Y., Zelener B. B., Zelener B. V., Manykin E. A., Khikhlukha D. R.
- 18:45 Pair production in strong non-uniform field at high energies
Khokonov Murat Khazretalievich (KBGU, Nalchik, Russia)

19:00  **SUPPER**

Chairman

Dr. K.V.Khishchenko

- 20:00 Ion recombination in dense plasma
Lankin Alexander (JIHT RAS, Moscow, Russia)
- 20:15 Spectrum of pressure fluctuations in non ideal plasma
Bystryi Roman (JIHT RAS, Moscow, Russia)

- 20:30 The energy transfer from plasma discharge into the gas flow
Golub V. V., Bocharnikov Vladimir Mikhailovich (JIHT RAS, Moscow, Russia), Petrov D. A., Saveliev A. S.
- 20:45 The electrostatic interaction potential of two charged spherical conductor particles in a uniform electric field
Filippov Anatoly Vasiljevich (SRC RF TRINITI, Troitsk, Russia)
- 21:00 Potential energy and shape of classical Coulomb clusters in axially symmetric parabolic traps
Dyachkov Lev Gavriilovich (JIHT RAS, Moscow, Russia)
- 21:15 Numerical simulation of the DC discharge with dense dusty clouds
Zobnin Andrey Vjacheslavovich (JIHT RAS, Moscow, Russia), Usachev A. D., Petrov O. F.
- 21:30 **CLOSING CEREMONY**
Concluding words by V. P. Efremov
- 21:45  **COFFEE-END**