

Conference Program, March 2, 2013

Opening Ceremony 16:00

Introductory words by V.E.Fortov, V.P.Efremov, A.P.Savintsev

Chairman

Prof. G.V.Shpatakovskaya

- 16:15 Viscosity as an indicator of non-ideality of strongly correlated systems (plenary)
Fortov Vladimir Evgenievich (JIHT RAS, Moscow, Russia)
- 16:50 Laser fusion—50 years of history (plenary)
Zmitrenko Nikolay Vasilievich (KIAM RAS, Moscow, Russia), Rozanov V. B., Vergunova G. A., Guskov S. Yu., Demchenko N. N., Doskoch I. Ya., Stepanov R. V., Yakhin R. A.

17:15  **COFFEE-BREAK**

Chairman

Prof. N.E.Andreev

- 17:30 Application of a laser interferometer and applicability of an acoustic approach in studying shock-wave spallation phenomena
Krasyuk Igor Kornelievich (GPI RAS, Moscow, Russia), Pashinin P. P., Semenov A. Yu., Stuchebrukhov I. A., Khishchenko K. V.
- 17:45 New experimental data of spallation phenomena of matter in the field of negative pressures created by means of 70 picosecond laser pulse
Stuchebrukhov Igor Aleksandrovich (GPI RAS, Moscow, Russia), Abrosimov S. A., Bazhulin A. P., Voronov V. V., Krasyuk I. K., Pashinin P. P., Semenov A. Yu., Khishchenko K. V.
- 18:00 Simulation of femtosecond laser ablation of gold into water
Povarnitsyn Mikhail Evgen'evich (JIHT RAS, Moscow, Russia), Itina T. E., Levashov P. R., Khishchenko K. V.
- 18:15 The comparison of hydrodynamic and atomistic approaches for modeling of laser ablation of metals
Fokin Vladimir Borisovich (JIHT RAS, Moscow, Russia), Levashov P. R., Povarnitsyn M. E., Khishchenko K. V.
- 18:30 Strong field effects in oriented crystals at high energies
Khokonov Murat Khazratievich (KBSU, Nalchik, Russia), Bekulova I. Z.
- 18:45 Kinetic coefficients of metals ablated by the action of femtosecond laser pulses
Migdal Kirill Petrovich (VNIIA, Moscow, Russia), Inogamov N. A., Petrov Yu. V.

19:00  **SUPPER**

Chairman

Prof. N.V.Zmitrenko

- 20:00 On interaction of short laser pulse with heterogeneous energetic matter
Assovskiy Igor Georgievich (ICP RAS, Moscow, Russia), Kozynda V. V., Tur I. V.
- 20:15 Instability and fragmentation of ablated layer at high-current electron beam irradiation of metals
Mayer Polina Nikolaevna (CSU, Chelyabinsk, Russia), Mayer A. E.
- 20:30 Atomistic simulation of defects formation in nuclear fuels due to heavy ion irradiation
Starikov Sergey (JIHT RAS, Moscow, Russia), Norman G. E., Pisarev V. V., Stegailov V. V.
- 20:45 Atomistic simulation of defects diffusion in uranium nuclear fuels
Kuksin A. Yu., Smirnova Daria Evgenyevna (JIHT RAS, Moscow), Starikov S. V., Stegailov V. V.
- 21:00 Ultra-high vacuum experimental setup for creation and diagnostics of surface nanostructures by scanning probe microscopy
Fokin Denis Alexandrovich (JIHT RAS, Moscow), Pikuz S. A., Stolyarov V. S., Skobelev I. Y.
- 21:15–21:30 The development of mobile testing facility based on voltage impulse generator for tasks solution related to lightning protection
Bykov Yuri (JIHT RAS, Moscow), Smirnov V. P., Grabovsky E. V., Gribov A. N., Oleinik G. M.