Conference Program, March 1, 2015

Opening Ceremony 16:00

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

Chairman   *Prof. G.V.Shpatakovskaya*

16:20   On correlation and quantum effects in strongly coupled plasmas (plenary)
        Fortov Vladimir Evgenievich (JIHT RAS, Moscow, Russia)

17:05   **CONFERENCE PHOTO (OUTSIDE)**

        COFFEE-BREAK

Chairman   *Prof. N.E.Andreev*

17:30   Intense particle beams and high energy densities physics
        Mintsev Victor Borisovich (IPCP RAS, Chernogolovka, Russia)

17:45   The behavior of metals under ultrafast loads driven by femtosecond laser
        Ashitkov Sergey Igorevich (JIHT RAS, Moscow, Russia), Komarov P. S., Agranat M. B., Kanel G. I.

18:00   Investigation of the spall strength of graphite in stresses produced by nano- and picosecond laser actions
        Krasyuk I. K., Semenov A. Yu., Stuchebryukhov I. A., Belikov R. S., *Khishchenko Konstantin Vladimirovich (JIHT RAS, Moscow, Russia)*, Rosmej O. N., Rienecker T., Schoenlein A., Tomut M.

18:15   Ablation of tantalum irradiated by femtosecond laser pulses
        Struleva Evgeniya Vyacheslavovna (JIHT RAS, Moscow, Russia), Ashitkov S. I., Komarov P. S., Ovchinnikov A. V., Agranat M. B.

18:30   Development of high power terahertz facility
        Chefonov Oleg Vladimirovich (JIHT RAS, Moscow, Russia), Ovchinnikov A. V., Ashitkov S. I., Agranat M. B., Vicario C., Hauri C. P.

18:45   Thin 10–100 nm film in contact with substrate: dynamics after femtosecond irradiation
        Khokhlov V. A., Inogamov N. A., Zhakhovsky V. V., *Shepelev Vadim Vladimirovich (ICAD RAS, Moscow, Russia)*, Ilnitsky D. K.

19:00   **SUPPER**

Chairman   *Dr. K.V.Khishchenko*

20:00   Implementation of nucleation model into hydrocode for simulation of laser ablation
        Povarnitsyn Mikhail Evgenievich (JIHT RAS, Moscow, Russia), Fokin V. B., Levashov P. R., Khishchenko K. V.

20:15   Continual atomistic simulation of metal targets irradiated by femtosecond double-pulses
        Fokin Vladimir Borisovich (JIHT RAS, Moscow, Russia), Povarnitsyn M. E., Levashov P. R.

20:30   Atomistic simulation of surface modification by laser pulse: comparison of models with various scales
        Starikov Sergey Valerievich (JIHT RAS, Moscow, Russia), Pisarev V. V.

20:45   The transparency of polycapillary system for femtosecond laser pulses
        Margushev Zaur Chamilovich (KBSC RAS, Nalchik, Russia), Bzheumikhov K. A., Savoiskii Yu. V., Khokonov A. Kh., Dzhanibekov K. Kh.

21:00   3D PIC modeling of ion acceleration from a thin plasma layer with overcritical density under the action of short intense laser pulse. Convergence of results depending on the computational parameters
Pugachev Leonid Petrovich (JIHT RAS, Moscow, Russia), Levashov P. R., Andreev N. E.

21:15   **COFFEE-BREAK**

Chairman   *Prof. V.B.Mintsev*

21:30   Parametric waves excitation in relativistic laser–plasma interactions for electron acceleration
Shulyapov Sergey Anatol'evich (MSU, ILC, Moscow, Russia), Ivanov K. A., Tsymbalov I. N., Krestovskih D. A., Savel'ev A. B., Ksenofontov P. A., Brantov A. V., Bychenkov V. Yu.

21:45   Warm solid matter isochorically heated by laser-generated relativistic electrons
Pikuz Sergey Alexeevich (JIHT RAS, Moscow, Russia), Neumayer P., Rosmej O. N., Antonelli L., Bagnoud V., Boutoux G., Faenov A. Ya., Giuffrida L., Hansen S. B., Khaghani D., Li K., Santos J. J., Sauterey A., Schoenlein A., Skobelev I. Yu., Zielbauer B., Batani D.

22:00   The THz scanning for the measurement of the density change in strained foams
Prokhorov A. E. (ICMM UB RAS, Perm, Russia), Vshivkov A. N., Kostina A. A., Plekhov O. A., Khemis S. B., Caumes J. P., Batsale J. C.

22:15   Development of permanent magnet quadrupole lenses for proton microscopy experimental facilities
Panyushkin Vsevolod Alekseevich (SSC RF ITEP, Moscow, Russia), Kantsyrev A. V., Bogdanov A. V., Skachkov V. S., Golubev A. A., Varentsov D., Lang P. M., Rodionova M. E., Shestov L., Weyrich K.

22:30–   The method of calculation and optimization of the ion-optical scheme of the proton microscope
22:45   *Bogdanov Anton Valentinovich (SSC RF ITEP, Moscow, Russia)*, Golubev A. A., Kantsyrev A. V., Turtikov V. I., Panyushkin V. A.