



XXXIV INTERNATIONAL CONFERENCE ON
INTERACTION OF INTENSE ENERGY FLUXES WITH MATTER
MARCH 1–6, 2019, ELBRUS, KABARDINO-BALKARIA, RUSSIA



Conference Program, March 3, 2019

Oral Session 15:00

Chairman

Dr. P.R. Levashov

- 15:00 Secondary sources of super-ponderomotive electrons and hard radiation in relativistic laser-matter interactions
Andreev Nikolay Evgen'evich (JIHT RAS, Moscow, Russia), Pugachev L. P., Rosmej O. N.
- 15:15 Preservation of the electron beam polarization and emittance in the laser plasma accelerator
Pugacheva Daria (JIHT RAS, Moscow, Russia), Andreev N. E.
- 15:30 Development of dislocation plasticity model for description of shock wave dynamics
Mayer Alexander Evgenievich (CSU, Chelyabinsk, Russia), Krasnikov V. S., Pogorelko V. V.
- 15:45 Thermodynamic and transportable properties of sapphire at shock compression
Nikolaev D. N. (IPCP RAS, Chernogolovka, Russia), Ostriak A. V.
- 16:00 Measurements of temperature of water in shock waves
Khishchenko Konstantin Vladimirovich (JIHT RAS, Moscow, Russia), Bordzilovskii S. A., Karakhanov S. M.
- 16:15 Thermal destruction of fayalite at high hydrogen pressures
Efimchenko Vadim Sergeevich (ISSP RAS, Chernogolovka, Russia), Barkovskii N. V., Fedotov V. K., Meletov K. P.
- 16:30 Thermal deformation and polymorphic transitions of 1,1-diamino-2,2-dinitroethylene in the temperature range from 145 to 475 K
Stankevich Aleksandr Vasilyevich (FSUE RFNC-VNIITF, Snezhinsk, Russia), Kostitsyn O. V., Taibinov N. P., Garmashev A. Yu.
- 16:45 The sound velocity measurements for liquid lead
Kondratyev Arseniy (JIHT RAS, Moscow, Russia), Rakhel A. D.

17:00



COFFEE-BREAK

Chairman

Dr. K.V. Khishchenko

- 17:15 Thermodynamics of gaseous plasmas in zero-temperature (vacuum) limit
Iosilevskiy Igor L'vovich (JIHT RAS, Moscow, Russia)
- 17:30 The equation of state of a mixture of dense gases taking into account the detailed chemical composition
Pruel Eduard Reinovich (LIH SB RAS, Novosibirsk, Russia), Anisichkin V. F.
- 17:45 Liquid Rb under high pressure: Electron core ionisation
Degtyareva Valentina Feognievna (ISSP RAS, Chernogolovka, Russia)
- 18:00 Equation of state of fluid lead
Rakhel Anatolii Dmitrievich (JIHT RAS, Moscow, Russia)
- 18:15 First-principle description of results of dynamic experiments for refractory metals near the melting and the evaporation curves
Minakov Dmitry Vyacheslavovich (JIHT RAS, Moscow, Russia), Paramonov M. A., Levashov P. R.
- 18:30 On the problem of equation of state for electron gas
Levashov Pavel Remirovich (JIHT RAS, Moscow, Russia), Dyachkov S. A.

18:45 Theoretical investigation of thermodynamic and radiative properties of hot dense plasma using quantum-statistical methods
Kadatskiy Maxim Alekseevich (JIHT RAS, Moscow, Russia), Orlov N. Yu., Khishchenko K. V.

19:00  **SUPPER**

20:00– **POSTER SESSION**

23:00