

Conference Program, March 1, 2016

Opening Ceremony 16:00

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

Chairman

Prof. G. I. Kanel

- 16:15 A V Bushman and equation-of-state problem
Lomonosov Igor Vladimirovich (IPCP RAS, Chernogolovka, Russia)
- 16:40 Binodal layer and rarefaction shock in retrograde adiabatic expansion of warm dense matter in two-phase region of non-congruent phase transition
Iosilevskiy Igor L'vovich (JIHT RAS, Moscow, Russia), Gryaznov V. K.

17:00  **COFFEE-BREAK**

Chairman

Prof. G. I. Kanel

- 17:30 On mechanical measurements in high-energy-density physics (plenary)
Fortov Vladimir Evgenievich (JIHT RAS, Moscow, Russia)
- 18:15 Complex structures of dense lithium: Electronic origin
Degtyareva Valentina Feognievna (ISSP RAS, Chernogolovka, Russia)
- 18:30 Nitrogen phase transformation under quasi-isentropic compression up to 130 GPa
Ternovoi Vladimir Yakovlevich (IPCP RAS, Chernogolovka, Russia), Nikolaev D. N., Kvitov S. V., Pyalling A. A.
- 18:45 Deuterium compression isentrope: Analysis of temperature and electrical conductivity
Levashov Pavel Remirovich (JIHT RAS, Moscow, Russia), Minakov D. V., Chentsov A. V.

19:00  **SUPPER**

Chairman

Prof. I. V. Lomonosov

- 20:00 Wide-range equations of state for compounds at high dynamic pressures
Khishchenko Konstantin Vladimirovich (JIHT RAS, Moscow, Russia)
- 20:15 Equation-of-state calculation for LiH and LiD based on quantum-statistical models
Kadatskiy Maxim Alekseevich (JIHT RAS, Moscow, Russia), Khishchenko K. V.
- 20:30 Region of validity of the Thomas–Fermi model with quantum, exchange and shell corrections
Dyachkov Sergey Aleksandrovich (JIHT RAS, Moscow, Russia), Levashov P. R., Minakov D. V.
- 20:45 Fluid–fluid–solid triple point on melting lines at high temperatures
Norman Genri Edgarovich (JIHT RAS, Moscow, Russia), Saitov I. M.
- 21:00 Dynamics of phonon spectrum and anomaly of the curve of melting of sodium at pressures 0–60 GPa
Chingina E. A., Volkov Nikolay Borisovich (IEP UB RAS, Ekaterinburg, Russia)

Chairman

Prof. I. L. Iosilevskiy

- 21:15 On the kinetics of graphite melting: A molecular modeling approach
Orekhov Nikita (JIHT RAS, Moscow, Russia), Stegailov V. V.
- 21:30 Attachment and accommodation at cluster growth in metal vapor
Lenev Dmitrii Yurievich (JIHT RAS, Moscow, Russia), Norman G. E.
- 21:45 Martensitic transformation and nanoscale aspects in shape memory alloys
Adiguzel Osman (FiratUni, Elazig, Turkey)
- 22:00 Investigations of thermal conductivity of metals in the field of centrifugal and vibration accelerations
Lepeshkin Alexander Roaldovich (CIAM, Moscow, Russia), Vaganov P. A.

- 22:15 Nucleation and spall strength of liquid metals
Lopantsyna Nataliya Yurievna (JIHT RAS, Moscow, Russia), Kuksin A. Yu.
- 22:30 Molecular dynamics study of viscosity during glass transition of aluminum melt
Kirova Elena Mikhailovna (MIPT, Dolgoprudny, Russia), Pisarev V. V.
- 22:45–
23:00 Features of structure and phase transitions in pure uranium and U-Mo alloys: Atomistic simulation
Kolotova Lada Nikolaevna (JIHT RAS, Moscow, Russia), Kuksin A. Yu., Smirnova D. E., Starikov S. V., Tseplyaev V. I.

21:15–
23:00



COFFEE-CONTINUUM