



XXXIII International Conference on Equations of State for Matter

March 1–6, 2018
Elbrus, Kabardino-Balkaria
Russia



Conference Program, March 2, 2018

Pension Elbrus Tegenekli 15:30

Chairman

Prof. V. B. Mintsev

- 15:30 Anomalous thermodynamics and entropic fluid–fluid phase transition problem in highly compressed hydrogen and nitrogen (**plenary**)
Iosilevskiy Igor L'vovich (JIHT RAS, Moscow, Russia), Gryaznov V. K.
- 16:00 Thermodynamic properties of hydrogen and helium in megabar pressure range
Gryaznov Victor Konstantinovich (IPCP RAS, Chernogolovka, Russia), Iosilevskiy I. L.
- 16:15 Brightness temperature and electric conductivity of multiple shocked initially gaseous deuterium and helium up to 0.4 TPa
Ternovoi V. Ya., Nikolaev Dmitry Nikolaevich (IPCP RAS, Chernogolovka, Russia), Shutov A. V., Ostriuk A. V.
- 16:30 Mechanism of the transition to the conducting state in solid hydrogen at high pressures
Norman G. E., Saitov Ilmur (HSE, Moscow, Russia)
- 16:45 Metastable states of fluid–fluid phase transition of warm dense hydrogen. Interpretation of experimental data scatter for the fluid–fluid phase transition in hydrogen
Norman G. E., Saitov I. M., Sartan Roman Alexandrovich (JIHT RAS, Moscow, Russia)

17:00  **COFFEE-BREAK**

Chairman

Prof. A. A. Golubev

- 17:15 Accelerator driven high energy density science: Status of high-energy-density physics at FAIR and GSI (**plenary**)
Hoffmann Dieter H.H. (XJTU, Xi'An, China), Zhao Y.
- 17:45 Kilojoule-level multifunctional laser system ELF-MEPhI
Belkov S. A., Derkach V. N., Garanin S. G., Gubskiy K. L., Kuznetsov Andrey Petrovich (NRNU MEPhI, Moscow, Russia), Voronich I. N.
- 18:00 Electromagnetic information technology for human body investigation
Gulyaev Yu. V., Cherepenin V. A., Pavlyukova Elena Rail'evna (IRE RAS, Moscow, Russia), Taranov I. V.
- 18:15 The ion-correlation average-atom model in the limit of weak non-ideality
Ovechkin Anton Aleksandrovich (FSUE RFNC–VNIITF, Snezhinsk, Russia), Falkov A. L., Loboda P. A.
- 18:30 Pseudo-atom molecular dynamics for the equation of state and ionic microstructure applications
Ovechkin A. A., Falkov Andrei Leonidovich (FSUE RFNC–VNIITF, Snezhinsk, Russia), Sapozhnikov F. A., Loboda P. A.

18:45  **SUPPER**

KBSU Base 21:00

21:00–
23:00  **POSTER SESSION**