



## Conference Program, March 4, 2017

### Oral Session 15:00

Chairman

Prof. I. L. Iosilevskiy

- 15:00 Laser interferometer gravitational wave observatory: Machine review and contribution of the Institute of Applied Physics RAS (**plenary**)  
*Khazanov Efim Arkadievich (IAP RAS, Nizhny Novgorod, Russia)*
- 15:30 Specific electrical conductivity of sapphire at shock compression up to 600 GPa  
*Nikolaev Dmirtiy Nikolaevich (IPCP RAS, Chernogolovka, Russia), Ternovoi V. Ya., Shutov A. V.*
- 15:45 Combined laser ultrasonics, laser heating and Raman scattering in diamond anvil cell system  
*Zinin Pavel Valentinovich (STC UI RAS, Moscow, Russia), Prakapenka V. B., Burgess R., Odake S., Chigarev N., Sharma S. K., Kutuza I. B.*
- 16:00 Laser vaporization mass spectrometry of  $ZrC_x$  at temperatures up to 4400 K  
*Frolov Aleksander Michailovich (JIHT RAS, Moscow, Russia), Sheindlin M. A.*

16:15  **COFFEE-BREAK**

Chairman

Prof. I. V. Lomonosov

- 16:30 Anomalous charge profiles in thermoelectrostatics and phase transitions in Coulomb models (**plenary**)  
*Iosilevskiy Igor L'vovich (JIHT RAS, Moscow, Russia), Chigvintsev A. Yu.*
- 17:00 Calculation of entropy in classical and first-principles molecular dynamics simulation  
*Minakov Dmitry Vyacheslavovich (JIHT RAS, Moscow, Russia), Levashov P. R.*
- 17:15 Investigation of structural and thermodynamic properties of Ni–Al  
*Karchevskaya Emma Stanislavovna (JIHT RAS, Moscow, Russia), Minakov D. V., Levashov P. R.*
- 17:30 Revealing free-like electrons in density functional theory models of warm dense matter  
*Stegailov Vladimir (JIHT RAS, Moscow, Russia), Zhilyaev P. A.*
- 17:45 Ion-correlative model of dense mixture plasmas: Structural and thermodynamical properties  
*Falkov Andrei Leonidovich (FSUE RFNC-VNIITF, Snezhinsk, Russia), Oveckin A. A., Loboda P. A.*
- 18:00–18:15 Electrical conductivity of warm dense matter: Electron jellium—new gas-plasma component  
*Khomkin A. L., Shumikhin Aleksey Sergeevich (JIHT RAS, Moscow, Russia)*

19:30–23:00  **BANQUET**