



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



Conference Program, March 4, 2019

Oral Session 16:00

Chairman

Dr. V.G.Sultanov

- 16:00 State of trapped matter inside graphene nanobubbles
Zhilyaev Petr Alexandrovich (Skoltech, Moscow, Russia), Iakovlev E. S., Akhatov I. Sh.
- 16:15 Volume-localized excited states in ionized C_{60}
Arutyunyan R. V., Orekhov N. D., Stegailov Vladimir (JIHT RAS, Moscow, Russia)
- 16:30 An extension of a linearized finite-difference model of gas dynamics with the property of entropy nondecreasing to 2D case
Godunov S. K., Klyuchinskiy Dmitriy Vladimirovich (NSU, Novosibirsk, Russia), Fortova S. V., Denisenko V. V.
- 16:45 The use of the modified algorithm for calculating contact boundaries in the finite element complex EFES
Radchenko P. A., Radchenko Andrey (TSUAB, Tomsk, Russia), Batuev S. P.

17:00  **COFFEE-BREAK**

Chairman

Prof. V.V.Stegailov

- 17:15 Surface self-diffusion and bubble diffusivity in bcc metals
Antropov Alexander Sergeevich (JIHT RAS, Moscow, Russia), Stegailov V. V.
- 17:30 Wave-packet molecular dynamics plus density-functional theory method for nonideal plasma simulations
Lavrinenko Yaroslav Sergeevich (JIHT RAS, Moscow, Russia), Morozov I. V., Valuev I. A.
- 17:45 Wave packet molecular dynamic approach for plasma phase transition in warm dense hydrogen
Fedorov Ilya Dmirtievich (JIHT RAS, Moscow, Russia), Orekhov N. D., Stegailov V. V.
- 18:00 Calculations of viscosities of liquid hydrocarbon mixtures using molecular dynamics simulations and correlation rules
Pisarev Vasily (JIHT RAS, Moscow, Russia)
- 18:15 The viscosity predictions for branched alkanes at pressures up to 1 GPa by molecular-dynamics methods
Kondratyuk Nikolay (HSE, Moscow, Russia), Pisarev V. V.
- 18:30 Shear viscosity from diffusivity based molecular dynamics methods
Kondratyuk N. D., Orekhov Maksim Aleksandrovich (MIPT, Dolgoprudny, Russia)
- 18:45–
19:00 Continuum modeling of two-phase flows in porous media
Zakharov Stepan (JIHT RAS, Moscow, Russia), Pisarev V. V., Chudanov V. V.

19:30–
23:00  **BANQUET**