



XXXIII International Conference on Equations of State for Matter

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

1978
Anniversary 40
of the first session
2018

Conference Program, March 5, 2018

Pension Elbrus Tegenekli 15:30

Chairman

Prof. N. E. Andreev

- 15:30 Studying the damage effect of high-power coherent terahertz pulses on living cells
Sitnikov Dmitry Sergeevich (JIHT RAS, Moscow, Russia), Ilyina I. V., Kosheleva N. V., Zurina I. M., Gorkun A. A.
- 15:45 Simulation of single-, double- and multi-pulse laser ablation of metals
Povarnitsyn Mikhail Evgenievich (JIHT RAS, Moscow, Russia), Levashov P. R.
- 16:00 Laser ablation thresholds for optical and x-ray lasers
Khokhlov Victor Alexandrovich (ITP RAS, Chernogolovka, Russia), Inogamov N. A., Faenov A. Ya.
- 16:15 On factors controlling emittance of electron bunches accelerated in guiding structures
Veysman Mikhail Efimovich (JIHT RAS, Moscow, Russia), Andreev N. E., Kuznetsov S. V.
- 16:30 Nonlinear resonance interactions of laser beam with dense atomic vapor
Sautenkov Vladimir Alekseevich (JIHT RAS, Moscow, Russia), Shneider M. N., Saakyan S. A., Vilshanskaya E. V., Zelener B. B., Zelener B. V., Fortov V. E.
- 16:45 The use of molecules and solids to search for a new physics
Titov Anatoly Vladimirovich (NRC KI, PNPI, Gatchina, Russia), Petrov A. N., Skripnikov L. V., Mosyagin N. S., Isaev T. A.

17:00  **COFFEE-BREAK**

Chairman

Prof. L. G. Dyachkov

- 17:15 Acceleration of metallic flyers on the Angara 5-1 installation
Oleinik Georgy Mikhailovich (SRC RF TRINITI, Troitsk, Russia), Tkachenko S. I., Grabovski E. V., Gribov A. N., Shishlov A. O., Khishchenko K. V.
- 17:30 The impact of local current density increase on conductor destruction
Krivosheev Sergey Ivanovich (SPbPU, Saint-Petersburg, Russia), Adamian Yu. E., Alekseev D. I., Magazinov S. G., Chernenkaya L. V.
- 17:45 Multiscale modeling and simulation of nuclear materials
Stegailov Vladimir Vladimirovich (JIHT RAS, Moscow, Russia)
- 18:00 Properties of ultracold Rydberg gas and plasma
Zelener Boris Borisovich (JIHT RAS, Moscow, Russia), Bobrov A. A., Bronin S. Ya., Saakyan S. A., Sautenkov V. A., Vilshanskaya E. V., Zelener B. V.
- 18:15 Diffusion coefficients of charged particles of ultracold in a magnetic field
Zelener Boris Vigdorovich (JIHT RAS, Moscow, Russia), Zelener B. B., Bobrov A. A., Bronin S. Ya., Khikhhlukha D. R.
- 18:30 Temperature measurement of light atoms by using two-photon resonances
Saakyan Sergey Aramovich (JIHT RAS, Moscow, Russia), Sautenkov V. A., Zelener B. B., Bobrov A. A., Zelener B. V.

18:45  **SUPPER**

Chairman

Dr. P.R. Levashov

- 20:00 Coulomb logarithm in nonideal and degenerate plasmas
Filippov Anatoly Vasilievich (SRC RF TRINITI, Troitsk, Russia), Starostin A. N., Gryaznov V. K.

- 20:15 Criteria of runaway electrons in a gas diode with a sharply nonuniform electric field
Zubarev Nikolay Mikhailovich (IEP UB RAS, Ekaterinburg, Russia)
- 20:30 Effect of non-linear screening on thermodynamic properties of complex plasma
Martynova Inna Aleksandrovna (JIHT RAS, Moscow, Russia), Iosilevskiy I. L.
- 20:45 Configurational entropy in dusty plasma model
Timofeev Alexey Vladimirovich (HSE, Moscow, Russia)
- 21:00 Lunar dust under investigation of future Russian space mission
Dolnikov Gennady Gennadjevich (IKI RAS, Moscow, Russia), Zakharov A. V., Kuznetsov I. A., Shashkova I. A., Lyash A. N., Popel S. I., Bednyakov S. A.
- 21:15 Spectroscopic investigation of Hall and helicon grid thrusters and low-temperature xenon-lamp plasma
Krivoruchko Dariya Dmitrievna (MIPT, Dolgoprudny, Russia), Skrylev A. V., Gorbunov A. V., Kharlan Y. A.
- 21:30 Spectral investigations of arc helium plasma: Density effects
Dyachkov Lev Gavriilovich (JIHT RAS, Moscow, Russia), Kavyrshin D. I., Korshunov O. V., Chinnov V. F.
- 21:45 **CLOSING CEREMONY**
Concluding words by V. P. Efremov, K. V. Khishchenko, V. G. Sultanov
- 22:00–  **COFFEE-END**
- 22:30