



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



## Conference Program, March 1, 2019

### Opening Ceremony 15:00

Introductory words by V. E. Fortov, Yu. K. Al'tudov, K. V. Khishchenko, V. G. Sultanov

Chairman

*Prof. G.E.Norman*

- 15:15 Thermodynamics of shock-wave and isentropic action on matter (plenary)  
*Fortov Vladimir Evgenievich (JIHT RAS, Moscow, Russia)*
- 15:45 X-ray *K* and *L* terms estimation in free many-electron atoms and ions  
*Shpatakovskaya Galina Vasilievna (KIAM RAS, Moscow, Russia)*
- 16:00 Physical processes during laser ablation into a liquid and during laser shock-wave pinning  
*Khokhlov Victor Alexandrovich (ITP RAS, Chernogolovka, Russia), Inogamov N. A., Zhakhovsky V. V., Petrov Yu. V., Anisimov S. I.*
- 16:15 Signatures of laser-induced silica glass densification in vibration and Raman spectra  
*Shcheblanov N. S., Povarnitsyn Mikhail Evgenievich (JIHT RAS, Moscow, Russia), Mishchik K. N., Tanguy A.*
- 16:30 Fragmentation of water droplet by ultra-short x-ray laser pulse  
*Grigoryev Sergey Yur'yevich (VNIIA(L), Moscow, Russia), Dyachkov S. A., Parshikov A. N., Zhakhovsky V. V.*

16:45  **CONFERENCE PHOTO (OUTSIDE)**



**COFFEE-BREAK**

Chairman

*Prof. N.E.Andreev*

- 17:15 Neutron stars from the collapse to the merging (plenary)  
*Lutovinov Alexander Anatol'evich (IKI RAS, Moscow, Russia)*
- 17:45 Observation of relativistic laser pulse driven magnetic field in wire-shape Cu–Al target  
*Golovin Daniil Olegovich (Osaka University, ILE, Suita, Japan), Yogo A., Pikuz T. A., Faenov A. Ya., Abe Y., Alkhimova M. A., Arikawa Y., Fujioka S., Honoki Y., Koga K., Lee S., Matsuo K., Okamoto K., Pikuz S. A., Shokita S., Skobelev I. Yu., Nishimura H.*
- 18:00 Laser–matter interaction modeling in relation to extreme-ultra-violet source development  
*Kim Dmitrii Andreevich (KIAM RAS, Moscow, Russia), Basko M. M., Vichev I. Yu.*
- 18:15 Towards high-intensity THz pulse generation in two color filaments of terawatt laser radiation  
*Nazarov Maxim Mihailovich (NRC KI, Moscow, Russia), Mitrofanov A. V., Solyankin P. M., Margushev Z. Ch., Chashin M. V., Shkurinov A. P., Sidorov-Biryukov D. A., Panchenko V. Ya.*
- 18:30 New schemes for stochastic electron heating in laser plasma interactions  
*Bochkarev Sergey Gennad'evich (LPI RAS, Moscow, Russia), d'Humières E., Tikhonchuk V. T., Korneev Ph. A., Barzegar S., Bychenkov V. Yu.*
- 18:45–19:00 Multielectron effects in secondary radiation generation during the interaction of atomic gases with intense laser pulses  
*Romanov Alexander (IAP RAS, Nizhny Novgorod, Russia), Silaev A. A., Frolov M. V., Sarantseva T. S., Minina A. A., Smirnova D. A., Vvedenskii N. V.*



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## *Conference Program, March 1, 2019*

### *Oral Session 20:00*

Chairman

*Dr. E.R.Pruel*

- 20:00 Polymetodical measurements of high-speed processes (**plenary**)  
*Petrov Dmitriy Vitalievich (FSUE RFNC–VNIITF, Snezhinsk, Russia), Garmashev A. Yu., Smirnov E. B., Levak K. V.*
- 20:30 Research in shock compression and rheology of materials at the “Luch” laser facility  
*Derkach Vladimir Nickolaevich (FSUE RFNC–VNIIEF, Sarov, Russia), Belkov S. A., Garanin S. G., Rogachev V. G.*
- 20:45 The project station “Fast Processes” based on the Siberian Ring Source of Photons  
*Ten Konstantin Alekseevich (LIH SB RAS, Novosibirsk, Russia), Pruel E. R., Rubtsov I. A., Arakcheev A. S., Tolochko B. P.*
- 21:00 Shock treatment of porous cubic zinc sulfide  
*Schlothauer Thomas (TUBAF, IM, Freiberg, Germany), Schimpf C., Kroke E., Heide G.*
- 21:15 On interaction of metastable shock waves with perturbations  
*Konyukhov Andrey Victorovich (JIHT RAS, Moscow, Russia), Levashov P. R., Likhachev A. P.*
- 21:30 Study of the liquid-metal drops fragmentation at a steam explosion  
*Ivochkin Yu. P., Kubrikov K. G., Teplyakov Igor Olegovich (JIHT RAS, Moscow, Russia), Ankudinov V. B.*
- 21:45– **COFFEE-END**
- 22:00