



XXVIII International  
Conference  
on Interaction  
of Intense Energy  
Fluxes with Matter

March 1-6, 2013, Elbrus  
Kabardino-Balkaria, Russia

## Conference Program, March 3, 2013

### Oral Session 16:00

Chairman

Dr. V.V.Milyavskiy

- 16:00 Time-dependent processes in shock waves (plenary)  
*Kanel Gennady Isaakovich (JIHT RAS, Moscow, Russia)*
- 16:30 The influence of the admixture of the fullerene C<sub>60</sub> on strength properties of aluminum and copper under shock-wave loading  
*Bezruchko Galina Sergeevna (IPCP RAS, Chernogolovka, Russia), Razorenov S. V., Popov M. Y.*
- 16:45 Experimental investigation of compression waves in cerium at pressures up to 6 GPa  
*Zubareva Alla Nikolaevna (IPCP RAS, Chernogolovka, Russia), Kolesnikov S. A., Utkin A. V.*
- 17:00 Elastic-plastic phenomena in shock waves caused by short laser pulses. Comparison of hydrodynamic and molecular dynamics simulation  
*Khokhlov Victor Alexandrovich (ITP RAS, Chernogolovka, Russia), Inogamov N. A., Zhakhovskiy V. V., Anisimov S. I.*

17:15  **COFFEE-BREAK**

Chairman

Prof. V.V.Golub

- 17:30 Numerical simulation of the plastic flow localization at the high strain rate simple shear and uniaxial compression  
*Mayer Alexander Evgenievich (CSU, Chelyabinsk, Russia), Borodin E. N., Mayer P. N.*
- 17:45 Abnormal Hall-Petch relation in ultrafine-grained copper and aluminum at extremely high strain rates  
*Borodin Elijah Nikolaevich (IPME RAS, Saint Petersburg, Russia), Mayer A. E.*
- 18:00 Entropy and viscosity in gases, plasmas, particle collisions and quark-gluon plasma  
*Son Eduard Evgenyevich (JIHT RAS, Moscow, Russia)*
- 18:15 Mechanisms of chemical reaction wave ignition by transient energy source  
*Kiverin Alexey Dmitrievich (JIHT RAS, Moscow, Russia), Ivanov M. F.*
- 18:30 Mechanism of hydrodynamical perturbations evolution in the flow under the moving piston  
*Ivanov Mikhail Fedorovich (JIHT RAS, Moscow, Russia), Kiverin A. D.*
- 18:45 Accelerator of electrons ELU-4 at KBSU  
*Kovalyov Alexander Borisovich (KBSU, Nalchik, Russia)*

19:00  **SUPPER**