



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




Conference Program, March 2, 2019

Oral Session 15:00

Chairman

Prof. I.L.Iosilevskiy

- 15:00 Numerical and experimental investigation of integral characteristics of cruise hydrogen scramjet demonstrator (plenary)
Son Eduard Evgenievich (MIPT, Dolgoprudny, Russia), Degtyar V. G., Khlybov V. I., Prokhorov A. N., Arefyev K. Yu., Alexandrov V. Yu., Gousskov O. V., Kalashnikov S. T., Sidorov R. S., Son K. E., Cheshko A. D.
- 15:30 Analysis of the effect of boron-containing compounds and combustion catalysts on the paraffin combustion rate in an oxidizer flow
Lukashevich S. V., Shiplyuk Aleksandr (ITAM SB RAS, Novosibirsk, Russia), Simagina V. I., Netskina O. V., Komova O. V.
- 15:45 The role of gas flame instability mechanisms in its acceleration
Elyanov A. E., Golub Victor V (JIHT RAS, Moscow, Russia), Mikushkin A. Yu., Petukhov V. A., Volodin V. V.
- 16:00 Dynamics of supersonic waves of spin reversal in molecular magnets
Kasimov Aslan Ramazanovich (Skoltech, Moscow, Russia)
- 16:15 Parametric study of the combustion acceleration in lean air-C₃H₈ mixtures activated by nonequilibrium discharge
Dobrovolskaya Anastasia (JIHT RAS, Moscow, Russia), Filimonova E. A., Bocharov A. N., Bityurin V. A.
- 16:30 Chemical inhibition of the processes of ignition of gaseous fuels
Drakon A. V., Eremin Alexander Victorovich (JIHT RAS, Moscow, Russia)
- 16:45 The promotion of detonation wave of condensation in acetylene by methane additions
Eremin A. V., Mikheyeva Ekaterina (JIHT RAS, Moscow, Russia)
- 17:00  **COFFEE-BREAK**

Chairman

Prof. A.A.Lutovinov

- 17:15 Constraining equation of state of neutron stars using astrophysical measurements (plenary)
Poutanen Juri (IKI RAS, Moscow, Russia)
- 17:45 Neutron star structure, equation of state, and thermal evolution
Potekhin Alexander Yurievich (Ioffe Institute, Saint-Petersburg, Russia)
- 18:00 Dynamics of supernova bounce in laboratory
Yudin Andrey Viktorovich (NRC KI, ITEP, Moscow, Russia)
- 18:15 Central engines of superluminous supernovae and their environment
Shidlovskiy Dmitriy Sergeevich (VNIIA(S), Moscow, Russia), Blinnikov S. I., Glazyrin S. I.
- 18:30 Problems of impact craters formation in the light of recent lunar missions
Shpekin Michael Ivanovich (KFU, Kazan, Russia), Barenbaum A. A.
- 18:45 A fluid dynamical model to shape complex craters
Ferreyra Ricardo Tomas (UNC, FCEfYn, Cordoba, Argentina), Shpekin M. I.

19:00



SUPPER

20:00–
23:00

POSTER SESSION