

First Announcement
& Call for Papers



XXXII International Conference on Interaction of Intense Energy Fluxes with Matter

March 1–6, 2017
Elbrus, Kabardino-Balkaria,
Russia

Supported by the Russian Academy of Sciences
and Russian Foundation for Basic Research

Abstract submission is open
until December 31, 2016

Regular articles submission is due
on February 15, 2017

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GENERAL INFORMATION

XXXII International Conference on Interaction of Intense Energy Fluxes with Matter (ELBRUS 2017) will be held at the Educational-Scientific Base of KBSU in Elbrus settlement, in the Kabardino-Balkar Republic of the Russian Federation, from Wednesday, March 1, to Monday, March 6, 2017.

CONFERENCE FOCUS

The technical focus of the conference is on physics of phenomena arising from the interaction of intense energy fluxes with condensed matter, as well as on physical properties of matter under extreme conditions at high pressures and temperatures. Invited plenary talks and contributed presentations in oral and poster sessions are planned. The conference will provide for the possibility of non-formal discussions, communications and co-operations.

CONFERENCE TOPICS

- Interaction of intense laser, x-ray and microwave radiation with matter
- Interaction of powerful particle beams with matter
- Techniques of intense energy fluxes generation
- Diagnostics of ultrafast processes
- Shock waves, detonation and combustion physics
- Equations of state and constitutive equations for matter under extreme conditions at high pressures and temperatures
- Low-temperature plasma physics
- Issues of physics and power engineering, technology aspects

CONFERENCE LANGUAGE

The conference languages are English (obligatory for all letters, abstracts, JPCS proceedings, posters, presentations and preferably for talks) and Russian (obligatory for KBSU proceedings and optionally for talks; simultaneous interpreter will be provided).

CALENDAR OF EVENTS

- December 31, 2016 — abstracts due deadline
- January 18, 2017 — abstracts acceptance letters, registration and lodging information e-mailed to participants
- February 15, 2017 — last day for submitting regular articles for the JPCS proceedings; reviewing procedure start
- February 28, 2017 — arrival to Elbrus
- March 1–5, 2017 — the conference sessions
- March 6, 2017 — departure from Elbrus
- March 15, 2017 — last day for submitting post-deadline articles of 1st type for the JPCS proceedings
- March 22, 2017 — last day for submitting post-deadline articles of 2nd type for the JPCS proceedings
- April 15, 2017 — JPCS reviewing procedure finish; last day for possibility of making corrections in accepted articles for the JPCS proceedings
- May 1, 2017 — last day for submitting articles for the KBSU proceedings (in Russian)
- June 2017 — expected date of publication of the JPCS and KBSU proceedings

ABSTRACTS

Sessions program will appear after reviewing of submitted abstracts. Abstracts (without figures) submission system is opened at www.ihed.ras.ru/elbrus17/contribution until Saturday, December 31, 2016. All accepted abstracts would be published in the Book of Abstracts and on the website of the conference.

JPCS PROCEEDINGS

The conference proceedings in English will appear in the open access Journal of Physics: Conference Series (JPCS), which is part of IOP Conference Series. All papers published in IOP Conference Series are fully citable and upon publication will be free to download in perpetuity. The journal articles are abstracted in Conference Proceedings Citation Index – Science (CPCI-S) (Thomson Reuters, Web of Science), Compendex, Scopus, Inspec, Chemical Abstracts Service, International Nuclear Information System (INIS), NASA Astrophysics Data System, SPIRES, and VINITI Abstracts Journal (Referativnyi Zhurnal).

Regular manuscripts prepared according to the author guidelines should be submitted for reviewing before 23:59:59 GMT on February 15, 2017, through the link www.ihed.ras.ru/elbrus17/contribution using the assigned user identifier.

Author guidelines and key dates for post-deadline papers can be found at www.ihed.ras.ru/elbrus17/proc/jpcs.php.

All submitted manuscripts will be peer reviewed through processes administered by the proceedings Editors. Reviews will be conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

KBSU PROCEEDINGS

The conference proceedings in Russian will appear in the Proceedings of the Kabardino-Balkarian State University. The journal articles are abstracted in Russian Index of Scientific Citation (elibrary.ru).

Regular manuscripts prepared according to the author guidelines www.ihed.ras.ru/elbrus17/proc/kbsu.php should be sent to elbrus@ihed.ras.ru (subject: ELBRUS 2017 KBSU Proceedings) until Monday, May 1, 2017.

All submitted manuscripts will be peer reviewed through processes administered by the proceedings Editors. Reviews will be conducted by expert referees to the professional and scientific standards expected of the journal.

LOCATION

Elbrus settlement is 18 km from Mount Elbrus (the highest pike of the Caucasus at 5642 m), 120 km from Nalchik, which is the capital of the Kabardino-Balkar Republic, and 200 km from Mineralnye Vody, where the nearest international airport is located. Elbrus settlement is situated in the valley of the Baksan River, which begins on Mount Elbrus. All settlements in the valley (Itkol, Cheget and Terskol) are famous ski resorts at altitude of approximately 2000 m. This valley is in a National Park, which is a region of extreme natural beauty. Visit to Mount Elbrus is possible by cable car for seeing the Greater Caucasus range with permanent snow from the Old Krugozor (3000 m), Mir (3500 m) and Gara-Bashi (3850 m) stations.

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