

**First Announcement &
Call for Abstracts and Papers**



XXVIII International Conference on

**INTERACTION
OF INTENSE
ENERGY FLUXES
WITH MATTER**

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

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

**Abstract submission is open
until December 31, 2012**

**Full-length paper submission is open
until January 20, 2013**

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GENERAL INFORMATION

The XXVIII International Conference on Interaction of Intense Energy Fluxes with Matter will be held at the Educational-Scientific Base of KBSU in Elbrus settlement, Kabardino-Balkaria Republic of Russian Federation, from Friday, March 1, to Wednesday, March 6, 2013.

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 and detonation 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 projects

CONFERENCE LANGUAGE

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

CALENDAR OF EVENTS

- **December 31, 2012** — abstracts due deadline
- **January 17, 2013** — contribution acceptance letters, registration and lodging information e-mailed to contributors
- **January 20, 2013** — full-length papers due deadline
- **March 1, 2013** — arrival to Elbrus
- **March 2–6, 2013** — the conference sessions
- **March 7, 2013** — departure from Elbrus

ABSTRACTS

Sessions program will appear after reviewing of submitted abstracts. Abstracts (without figures) submission system is opened on the web site <http://www.ihed.ras.ru/elbrus13/contribution/> until **Monday, December 31, 2012**. All accepted abstracts will be published in the Book of Abstracts and on the web site of the conference.

FULL-LENGTH PAPERS

Before the conference, the compendium “Physics of Extreme States of Matter—2013” is planned to be published. All participants are invited to submit their manuscripts, those will be peer-reviewed regardless of abstracts consideration.

Full-length papers submission system is opened at <http://www.ihed.ras.ru/elbrus13/contribution/> until **Sunday, January 20, 2013**.

LOCATION

Elbrus settlement is 18 km far from Mount Elbrus (the highest pike of the Caucasus, 5642 m height), 120 km far from Nalchik, which is the capital of the Kabardino-Balkaria Republic, and 200 km far from Mineralnye Vody city. The nearest international airport is Mineralnye Vody.

Elbrus settlement is situated in the valley of the Baksan River, which starts from Mount Elbrus. All settlements in the valley (Itkol, Cheget, and Terskol) are famous ski resorts at altitude of approximately 2000 m. This is a region of National Park of extreme natural beauty. It is recommended to visit Mount Elbrus by an elevator for seeing the Greater Caucasus Range with eternal snow from Old Krugozor (3000 m) and Mir (3500 m) stations.



CONTACT INFORMATION

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