

Dear colleagues,

We are pleased to inform you that the Joint Institute for High Temperatures of the Russian Academy of Sciences (JIHT RAS), Moscow, and the GSI Helmholtzzentrum für Schwerionenforschung (GSI), Darmstadt, are organizing the Fifth Workshop on Plasma Physics with Intense Laser and Heavy Ion Beams.

This workshop is a continuation of serial meetings within the framework of the Memorandum of Understanding between GSI, EMMI and JIHT RAS for cooperation in the investigation of hot and dense plasmas and in the development for accelerator and laser based plasma physics in GSI and JIHT RAS, signed in November 2008.

The workshop will take place on October 8–9, 2012, at JIHT RAS, Room 230, Izhorskaya 13 Bldg 2, Moscow 125412, Russia.

The workshop is focused on the research field of laser and heavy-ion beams interaction with matter, in particular the creation and exploration of matter at extreme conditions, including inertial fusion and astrophysical implications.

The research activities in these fields have long term collaborations between GSI, Germany, and leading Russian Institutions: JIHT RAS, Institute of Theoretical and Experimental Physics (ITEP), Moscow, Institute of Problems of Chemical Physics (IPCP) RAS, Chernogolovka, Prokhorov General Physics Institute (GPI) RAS, Moscow, Lebedev Physical Institute (LPI) RAS, Moscow, VNIITF, Snezhinsk, and VNIIEF, Sarov. One of the objects of the workshop is to survey the current progress in the Russian–German collaboration of the involved Institutions in the research on Plasma Physics with Intense Laser and Heavy Ion Beams.

The main topics of the workshop include:

1. Status of the scientific program with femtosecond and nanosecond – PHELIX laser pulses in GSI.
2. Status of current experiments at Russian Laser Facilities (JIHT RAS, GPI RAS, VNIIEF).
3. Status of current experiments for FAIR at Russian accelerator facilities (ITEP).
4. Progress in target physics (LPI RAS, JIHT RAS).
5. Short- and long-term planning of experiments and installations at PHELIX for FAIR.

Please confirm your intention to participate in the workshop filling out the pre-registration form online and submit your presentation abstract via the workshop website, <http://www.ihed.ras.ru/wlib2012/contribution/>, by October 1, 2012.

Further information will be provided on the workshop website <http://www.ihed.ras.ru/wlib2012/>.

We would greatly appreciate your participation in the workshop!

With best regards,

Workshop co-chairmen
Vladimir Fortov
Horst Stoecker