

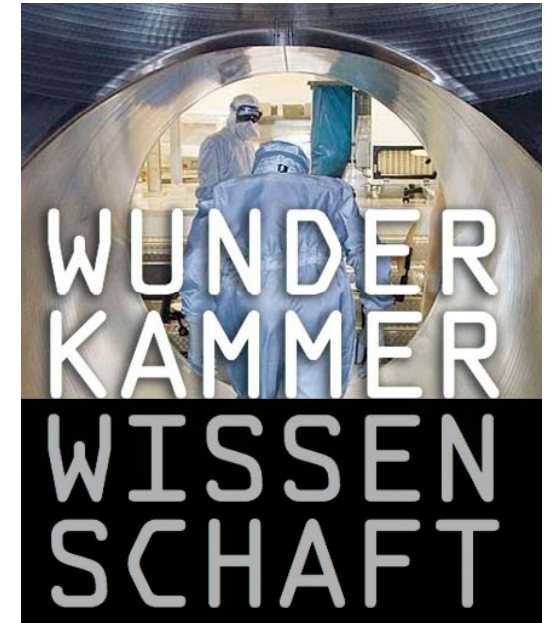
November 2011

## Helmholtz Institute Jena - NEWS

### “Wunderkammer Wissenschaft” visits Jena

The touring exhibition “Wunderkammer Wissenschaft” of the Helmholtz society visits the city of Jena in November. The exhibition presents an overview of the scientific work within the Helmholtz research centers and its impact to the general public..

The exhibition is housed by the Neue Mitte in the city center of Jena from November 9 to November 25.



### Save the date: 2nd Common Meeting of the HI-Jena scheduled for December, 1st

**Reminder:** All members of the HI-Jena are cordially invited to the second common meeting of the HI-Jena on July, 1st at Hörsaal 1, Abbeanum, Fröbelstieg 3 in Jena. The event will start at 4 pm. After the presentations we will continue the discussions in an informal atmosphere until about 9 pm.

The research groups are invited to participate with one or two talks to present their current activities.

A detailed program will be send out soon.

**Important: HI-Jena member list is now online!**

The contact information of all members of the HI-Jena are now online: <http://www-ap.gsi.de/jena/people/>  
Please check if the entries are correct and complete.

**Important: Lecture/Teaching data base is starting!**

All members of the HI-Jena are invited to enter their **seminar talks/conference talks/teaching lectures** at: <http://www-ap.gsi.de/jena/talks/>  
Please provide us with all your contributions since the beginning of your membership to the HI-Jena.

**We are moving to our new building in Fröbelstieg 3**

Starting from November 17 you will find us in the renowned institutes' building in Fröbelstieg 3. The secretary's office is located on the 3rd floor, room 210.



November 2011

## Seminars and Meetings at the HI-Jena

Please note: All seminars are taking place in the **new seminar room of the HI-Jena (room 205, Fröbelstieg 3)**.

### Atomic Physics Online Seminar at GSI

It takes place every Wednesday at 11:00 a.m at GSI. The videotransmission of this seminar is shown in the seminar room of the HI-Jena. This seminar allows a regular scientific exchange even though the partner institutes are widespread.

### HI-Jena PhD/Postdoc – Meeting

All Postdocs & students of the HI-Jena have the chance to meet every two weeks in the seminar room of the HI-Jena to exchange ideas about their respective research fields.

**The next meeting takes place on December 8.**

### HI-Jena Member – Meeting

All members of the HI-Jena meet at a jour fixe every two weeks at the seminar room of the HI-Jena. A scientific presentation will be given by one of the members which should be followed by fruitful discussion to assure a regular exchange.

**The next meeting takes place on December 15.**

Matthias Schnuerer, MBI Berlin, „Advancement of laser ion acceleration with intense femtosecond driver pulses at ultra-high temporal contrast “

## GSI Summer Students program 2012 is open for applications

It is offered to students on the advanced undergraduate level (Bachelor, Master or Diploma) in physics and related natural science and engineering disciplines from Europe and GSI/FAIR partner countries.

Further information for applicants can be found here: <http://hgs-hire.de/summer-program>

## Laser-Plasma Interaction at Ultra-High Intensity - 2nd Dresden Exchange on Laser-Plasma Interaction Theory

Laser-Plasma Interaction (LPI) at Ultra-high Intensities (UHI) is one of today's hot topics in plasma physics. Around the globe, new laser facilities are being built opening new paths towards a wide range of applications: laser-based particle acceleration, novel radiation sources, fast ignition for inertial fusion, hadron-therapy, etc. To trigger and sustain such developments, a deep understanding of LPI is necessary. This understanding relies on theoretical/analytical models as well as on intensive realistic numerical simulations. It is the aim of this workshop to stimulate and discuss the recent theoretical progress in this field.

More information: <http://www.mpijks-dresden.mpg.de/~enlite12/>



## EAS – Extreme Atomic Systems conference will be held in Riezlern, Austria in February 2012

Modern atomic physics witnesses a fast progress towards extreme conditions, in the ultracold and the ultrafast. To explore these new parameter regimes is the common scheme of this atomic physics meeting.

Each participant can give a talk of up to 20 minutes, time for discussing is provided.

Further information can be found here: <http://www.mpipks-dresden.mpg.de/~eas/>

### Recent Publications

#### **Laser driven X-ray parametric amplification in neutral gases—a new brilliant light source in the XUV**

B. Aurand, J. Seres, V. Bagnoud, B. Ecker, D.C. Hochhaus, P. Neumayer, E. Seres, C. Spielmann, B. Zielbauer, D. Zimmer, and T. Kuehl

NIM A **653** 130 (2011)

doi: [10.1016/j.nima.2010.12.208](https://doi.org/10.1016/j.nima.2010.12.208)

#### **Generation of high quality, 1.3 cycle pulses by active phase control of an octave spanning supercontinuum**

S. Demmler, J. Rothhardt, A. M. Heidt, A. Hartung, E. G. Rohwer, H. Bartelt, J. Limpert, and Andreas Tünnermann

Optics Express **19** 20151 (2011)

doi: [10.1364/OE.19.020151](https://doi.org/10.1364/OE.19.020151)

### Contact at HI-Jena:

Secretary:

Tel.: 03641-947600

E-Mail: [s.hundack@gsi.de](mailto:s.hundack@gsi.de)

Admin. Assistent:

Tel.: 03641-947603

E-Mail: [b.kirchner@gsi.de](mailto:b.kirchner@gsi.de)

Helmholtz-Institut Jena, Helmholtzweg 4, 07743 Jena; [www.hi-jena.de](http://www.hi-jena.de)

