

## Helmholtz Institute Jena - NEWS

With this newsletter the Helmholtz Institute Jena (HI-Jena) would like to inform its members and collaborators about the latest activities. Here we will announce current seminars, talks or other events within the HI-Jena and we also will present general organisational information. You will receive this newsletter every month by E-Mail or you can find it on the homepage of the HI-Jena: [www.hi-jena.de](http://www.hi-jena.de).

### 1st Common Meeting of the HI-Jena was a great success

On the 21st of July the members of the HI-Jena came together for their first common meeting. Participants from several working groups presented an overview of the current status of their research activities. The inspiring atmosphere led to many discussions that were continued in the evening at a BBQ.

The common meeting is planned to take place every half a year. The next meeting is scheduled for December.



### Reconstruction of the new institute building completed

The new building for the Helmholtz Institute Jena has an interesting history. Built in 1923 as the institute for research on earthquakes by the Carl-Zeiss-Foundation, it has later been housing the institutes for soil dynamics and magnetohydrodynamics. Since 2007 parts of it have been used for the POLARIS research group. After complete restructuring it will be used in the future by the Helmholtz Institute Jena. In total, about 1200 qm<sup>2</sup> of space are available on all floors. We are very grateful to have such an impressive building.

**The inauguration of the newly renovated building will take place on September 19th 2011, 4pm. Please join us for a housewarming reception at Fröbelstieg 1, auditorium 1.**



## Seminars and Meetings at the HI-Jena

(For more information including the abstracts of the talks see the HI-Jena webpage).

### 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 (room number 214)**. 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 (room number 214)** to exchange ideas about their respective research fields.

**The next meeting takes place at the beginning of October.**

### 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 (room number 214)**. 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 October 6.**

## Recent Publications

### **High quality sub-two cycle pulses from compression of supercontinuum generated in all-normal dispersion photonic crystal fiber**

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

Optics Express **19** 13873 (2011)

doi: [10.1364/OE.19.013873](https://doi.org/10.1364/OE.19.013873)

### **Creating circularly polarized light with a phase-shifting mirror**

B. Aurand, S. Kuschel, C. Rödel, M. Heyer, F. Wunderlich, O. Jäckel, M. C. Kaluza, G. G. Paulus and T. Kühl

Optics Express **19** 17151 (2011)

doi: [10.1364/OE.19.017151](https://doi.org/10.1364/OE.19.017151)



## Events at partner institutions of the HI-Jena

### ISTC-GSI Young Scientists School “Ultra-High Intensity Light Science and Applications”

The ISTC-GSI Laser School on ultra-high intensity light science is taking place at GSI from October 10 to October 15. Registration is open until September 15.  
More information: [http://www.gsi.de/forschung/pp/dates/summer\\_school\\_2011.htm](http://www.gsi.de/forschung/pp/dates/summer_school_2011.htm)

### Workshop on Petawatt-Lasers at Hard X-Ray Light Sources at HZDR

The goal of this workshop is to identify the Scientific Opportunities which will be enabled by coupling high-intensity and high-energy optical lasers with 4th generation hard x-ray light sources. It takes place from September 5 to September 9.  
More information: <http://www.hzdr.de/db/Cms?pNid=2246>

### Nonlinear dynamics of simple quantum systems at extreme temperatures and intensities at EMMI

The workshop will cover a broad research program on the dynamics of atoms and ions at extreme temperatures and (laser) intensities addressing the recent advances in this field. It will be organized under the roof of the EMMI Helmholtz alliance. It takes place from October 31 to November 2.  
More information: <http://www-aix.gsi.de/conferences/emmi/NDSQS2011/>

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