

Workshop on Nuclear Astrophysics at the Dresden Felsenkeller, 26-28 June 2017

First circular, dated 09.05.2017

A new underground ion accelerator facility for nuclear astrophysics is currently under construction at the Felsenkeller site, Dresden. The accelerator tank has already been moved into the underground tunnel in April 2017. In order to update and discuss the science case for the new facility, in the context of the state of the art in the field of nuclear astrophysics, a brief workshop will be held in Dresden, from 26-28 June 2017.

The highlight of the workshop will be the ceremonial opening of the Felsenkeller tunnels in the presence of 2015 Physics Nobel Laureate Arthur B. McDonald, the Saxonian Minister of Science, the Mayor of Dresden, and the Rector of TU Dresden.

Topics

- The sun, solar neutrinos, and solar abundances
- Stellar structure and abundances, hydrostatic stellar nucleosynthesis
- Novae, supernovae, X-ray and γ -ray bursts, mergers, explosive nucleosynthesis
- Experimental techniques and facilities

Scientific program

- The program will consist of invited oral presentations, and in addition a limited number of selected contributed presentations and posters.
- Scientists wishing to make a contribution are asked to send a tentative title to the organizers; they will be notified by the registration deadline.

Time and venue

- Workshop begins: Monday 26 June 2017 13:30
- Workshop (scientific part) ends: Wednesday 28 June 2017 12:30
- Ceremonial lab opening: Wednesday 28 June 2017 13:00 - 15:00
- Venue Monday+Tuesday: Helmholtz-Zentrum Dresden-Rossendorf, Bautzner Landstr. 400, 01328 Dresden
- Venue Wednesday: HZDR Dépendance Felsenkeller Dresden, Am Eiswurmlager 12, 01189 Dresden

Practical information

- Dresden can be conveniently reached by air (Dresden international airport, many connections to Frankfurt, Munich, and Düsseldorf) or within two hours by train or by bus from Berlin.
- Participants should book their own accommodation, using the information at the [link](#) given on the conference web page.
- Bus transfer from the hotels to the venue and back will be provided.
- Conference web page <http://www.hzdr.de/felsenkeller>

Registration (by 31 May 2017)

- Please register by e-mail to Anne Varga (a.varga@hzdr.de) stating the title of your contribution (if applicable), your accommodation, travel dates, and whether you will attend the ceremonial opening.

Scientific advisory committee

- Zsolt Fülöp, MTA ATOMKI Debrecen, Hungary
- Brian Fulton, University of York, UK
- Alessandra Guglielmetti, Milano University, INFN, and LUNA collab., Italy
- Jordi José, UPC Barcelona, Spain

Organizers

- Daniel Bemmerer d.bemmerer@hzdr.de
- Kai Zuber zuber@physik.tu-dresden.de
- Anne Varga (conference secretary) a.varga@hzdr.de

**Registration for the Workshop on
Nuclear Astrophysics at the Dresden Felsenkeller**

Please send to Anne Varga (conference secretary) by e-mail a.varga@hzdr.de

Name:

Affiliation:

Title of presentation (if applicable):

Arrival date:

Departure Date:

Name of hotel: Pullman Ibis TU Guest house

I have already booked the hotel myself: Yes No

I will attend the ceremonial opening, 28.06. 13:00-15:00 Yes No