

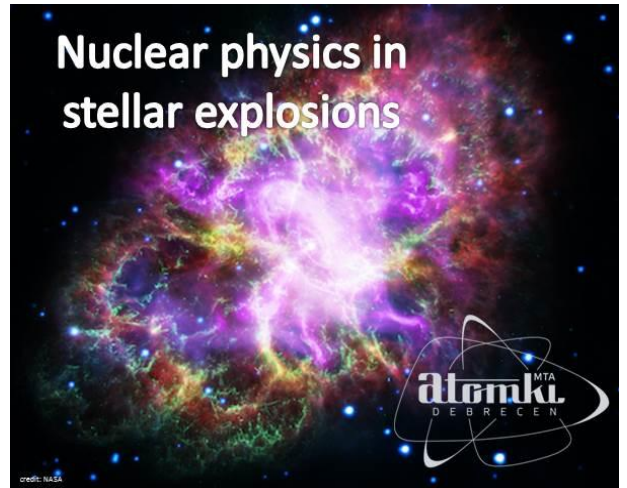
1st Circular

# Nuclear Physics in Stellar Explosions

Debrecen, Hungary

12-14 September 2018

<http://w3.atomki.hu/astro2018/>



## VENUE

The workshop will be held at the main lecture hall of the Institute for Nuclear Research of the Hungarian Academy of Sciences (Atomki), Debrecen, Hungary ([www.atomki.mta.hu](http://www.atomki.mta.hu)).

## SCIENTIFIC PROGRAMME

The workshop covers a wide range of topics related to explosive nucleosynthesis:

- Evidences of explosive nucleosynthesis (observations and abundances)
- Nuclear Theory in Astrophysics (mass models,  $\beta$ -decay rates, optical potentials)
- Modeling of the nucleosynthesis processes (r-, rp-, and  $\gamma$ - process network calculations)
- Recent r-, rp-, and  $\gamma$ -process related experiments
- R&D for nuclear astrophysics: EU funding schemes, scientific and industrial collaborations, new facilities, detector development and new experimental approaches

The workshop will start at 11:00 on Wednesday, 12<sup>th</sup> September, and will close at 15:30 on Friday, 14<sup>th</sup> September.

Furthermore, the program includes three sessions on research and development and a visit to the National Instruments R&D center, Debrecen.

## THE HOSTING CITY

Debrecen is the 2<sup>nd</sup> largest city of Hungary, the cultural and educational centre of eastern part of the country. It can be reached from Budapest Airport in three hours by train or by car on the M3 highway. More detailed travel information will be provided on the website.

Information on the city: <http://eng.debrecen.hu/>

## INVITED SPEAKERS (Scientific sessions)

- Algora (Instituto de Física Corpuscular, Valencia, Spain)
- J. Bliss (Technische Universität Darmstadt, Darmstadt, Germany)
- R. Diehl (Max-Planck- Institut für Extraterrestrische Physik, Garching, Germany)
- Zs. Frei (Eötvös Loránd University, Budapest, Hungary)
- Gy. Gyürky (Atomki, Debrecen, Hungary)
- J. José (Universitat Politècnica de Catalunya, Barcelona, Spain)
- A. Kankainen (University of Jyväskylä, Jyväskylä, Finland)
- G. Martinez-Pinedo (Technische Universität Darmstadt & GSI Helmholtz-zentrum für Schwerionenforschung, Darmstadt, Germany)
- S. Nishimura (RIKEN, Wako-shi, Japan)
- T. Rauscher (University of Basel, Basel, Switzerland)
- K. Miernik (University of Warsaw, Warsaw, Poland)

## Tentative schedule of the R&D sessions

- EU and science funding opportunities
- Research instrumentation developments
- Software tools for research

## Fees and support

The registration fee will cover the abstract booklet, coffees and refreshments during the breaks, lunches for three days, and a welcome reception.

The registration fee is 150 Euro.

For a limited number of early carrier stage researchers (mostly but not exclusively for students and young researchers) financial support is available through the COST Chetec network (<http://www.chetec.eu/>).

(Please note that participants receiving reimbursement from Chetec are expected to stay for the whole duration of the workshop, from Wednesday 11 am to Friday 15:30 pm. The support will be provided after registering on the e-cost website (<https://e-services.cost.eu/user/login>) and uploading the necessary documents).

## REGISTRATION

Please register at <http://w3.atomki.hu/astro2018/#registration>

## ACCOMMODATION

Information on some recommended hotels can be found on the webpage. Booking in these hotels can be done either through their webpages or by using e.g. booking.com. A limited number of rooms in the guesthouse of Atomki are also available, in case you are willing to stay in one of these rooms, please contact the organizers.

## DEADLINES

Submission of abstracts: 30th of July

## SPONSORS

[Cost ChETEC](#)

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[Hungarian Academy of Sciences](#)

[National Instruments](#)

## CORRESPONDENCE

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