

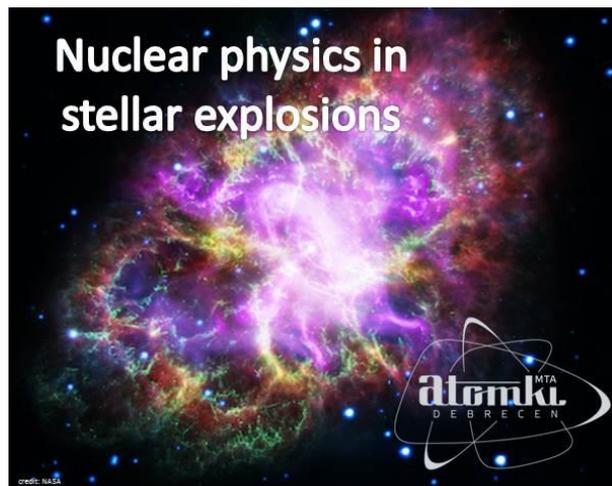
Final Circular

## Nuclear Physics in Stellar Explosions

Debrecen, Hungary

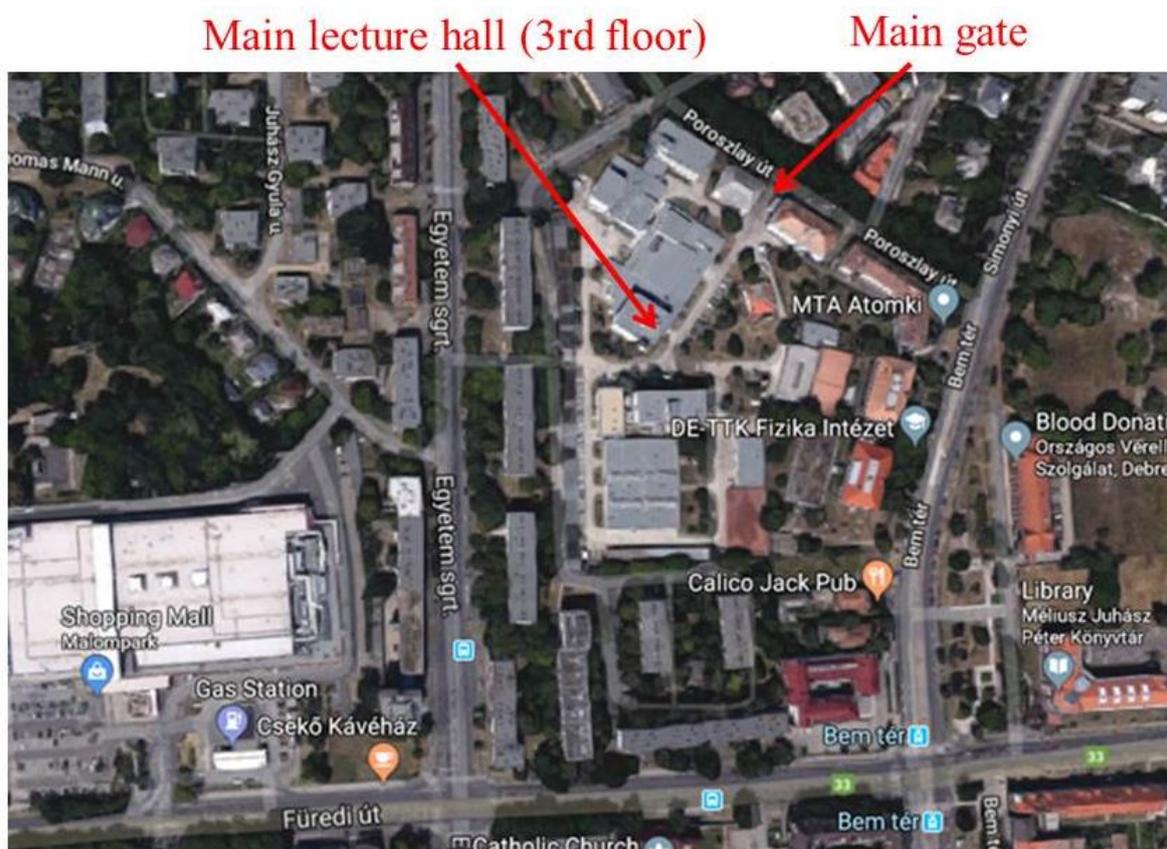
12-14 September 2018

<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)).



Atomki can be easily reached by tram (line 1, about 2-3 minutes' walk from the "Bem ter" or "Weszpremy utca" stop). To enter the institute please use the main gate located at the Poroszlay street.

## SCIENTIFIC PROGRAMME

The workshop – covering a wide range of topics related to explosive nucleosynthesis – will start at 11:00 on Wednesday, 12<sup>th</sup> September, and will close at 16:00 on Friday, 14<sup>th</sup> September.

List of topics to be covered:

- 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

The conference program is available online: <http://w3.atomki.hu/astro2018/#schedule>  
Invited talks will be 25 minutes long including 5 minutes of discussion. Contributed talks will be 20, 15 or 10 minutes long including 4, 3 and 2 minutes for discussion. A computer and projector will be available for presentations (we accept ppt, pdf and prezi formats), please provide your slides in the coffee breaks before your sessions at latest. Speakers should check the presentations on the conference notebook before each session.

### INVITED SPEAKERS (Scientific sessions)

- A. Algora (Instituto de Física Corpuscular, Valencia, Spain)
- J. Bliss (Technische Universität Darmstadt, Darmstadt, Germany)
- R. Caballero-Folch (TRIUMF, Vancouver, Canada)
- 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)
- K. Miernik (University of Warsaw, Warsaw, Poland)
- S. Nikas (Technische Universität Darmstadt & GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany)
- S. Nishimura (RIKEN, Wako-shi, Japan)
- T. Rauscher (University of Basel, Basel, Switzerland)
- K. Schmidt (Technische Universität Dresden & Michigan State University)

Furthermore, the program includes a one day meeting on industrial and scientific collaboration on research and development (WG4-Technological Challenges meeting) and a visit to the National Instruments research and development center, Debrecen. The aim of the ChETEC industrial day R&D session I-III is to discuss EU funding schemes, scientific and industrial collaborations, new facilities, detector development

and new experimental approaches used (or planned to be used) at the field of nuclear astrophysics.

#### INVITED SPEAKERS (ChETEC industrial day R&D sessions)

- P. Harmat (Datalist Systems Ltd., Budapest, Hungary)
- K. Henjes-Kunst (DESY – Deutsches Elektronen-Synchrotron, Hamburg, Germany)
- R. Hirschi (Keele University, Keele, UK)
- Cs. Kiss (Konkoly Observatory, MTA CSFK, Budapest, Hungary)
- C. Matei (ELI-NP, Magurele, Romania)
- N Soic (Ruđer Bošković Institute, Zagreb, Croatia)

#### REGISTRATION

The registration desk at the venue will be open from Wednesday to Friday an hour before the workshop starts until the end of the last session. The registration fee is 150 Euro, which covers the abstract booklet, coffees and refreshments during the breaks, lunches for three days, and a welcome reception.

we strongly prefer that the registration fee is paid by bank transfer to ATOMKI, before the event. At the event, we can accept only Hungarian currency, in cash.

#### COFFEE BREAKS, LUNCHES and WORKSHOP DINNER

Coffees, refreshments and biscuits will be served at the aula outside the lecture hall. Lunches will be served either outside, front of building XII or in case of bad weather at the ground floor of building. The conference dinner will take place at the National Instruments research and development center. Due to security reasons we have to provide the ID numbers to the company and ask the participants to bring their ID's for the visit.

#### TRAVEL

The town of Debrecen has a regional airport <http://www.debrecenairport.com/> with only few international connections. The low-cost flight company Wizzair uses it as its home-base airport and also the Lufthansa has a daily-base connection to Munich Airport.

In case you arrive to the Debrecen airport, please let us know your flight details because we will provide information on local transportation opportunities.

Participants are more likely to arrive at the <https://www.bud.hu/>.

There are different ways of reaching the workshop site from there:

#### **Shuttle bus service from Budapest airport to Debrecen**

Probably the most convenient way is to use an airport shuttle service which provides a door-to-door transfer from the airport to your hotel. The service must be pre-booked.

Several companies provide such service; booking can be done at their homepages e.g.: <https://www.agoratrans.hu/s> or <http://tosi.hu/create-booking/route> web page. The price of the transfer for two ways is about 20.000 - 22.500 HUF (~75 EURO) depending on the arrival & departure time of your flight, which can be paid by credit card in advance (using the online booking system of the company) or in cash (Euro & Hungarian Forints) to the driver. We recommend using the online booking system. If you prefer, the workshop organizers can help you booking the transfer, however, this case please let us know your phone number.

Note, that the shuttle minibus collects several passengers, so some delay in departure can be expected. The company will inform every passenger on the day before the arrival in text message (sms) before 4pm on the travel details. The bus will pick up the passengers at the arrival floor (ground level) outside of terminal 2A next to the pedestrian crossing and bring you directly to your hotel. On your departure day the bus can pick you up instead of your Hotel at Atomki (address: Atomki, Debrecen, Bem ter 18/c)



## Train

Take the public bus No. 200E from outside the ground level of the airport towards Budapest Kőbánya-Kispest station. Bus ticket can be purchased from the machines at the bus stop or from the driver. Get off at the 4th stop called Ferihegy vasútállomás (Ferihegy Railway Station). The railway station is just on the opposite side of the street, having direct train connection to Debrecen. We recommend using

InterCity trains. A timetable can be found [here](#). Tickets can be purchased at the station from the ticket machine or at the cashier.

## **Car**

Some participants may come by car. In case you would like to park at Atomki, please let us know your license plate number in advance.

## ACCOMMODATION

Information on some recommended hotels can be found on the webpage. All of these hotels are located in walking distance from Atomki. Please walk along the tramline toward the Nagyerdő Park (opposite direction than the city center). 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 (please note that breakfast is not served at the guesthouse).

## THE HOSTING CITY

Debrecen is the 2<sup>nd</sup> largest city of Hungary, the cultural and educational center 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/>

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## CORRESPONDENCE

E-mail: [npse@atomki.mta.hu](mailto:npse@atomki.mta.hu)

G. G. Kiss

Atomki

H-4001 Debrecen

P. O. Box 51

Hungary

tel: +36 52 509200

fax: +36 52 416181

Emergency phone number: +36-30-649-5625 (G. G. Kiss)