ChETEC-INFRA SNAQs [snacks]
Schools on Nuclear Astrophysics Questions

Question in June 2021
What does nuclear physics do for astrophysics?

Timetable (15:00 – 18:30 CEST, 09:00 – 12:30 EDT)

15:00 – 15:05	Welcome
15:05 – 15:15	Carpathian Summer School of Physics
15:15 – 15:50	**Nuclear physics in astrophysics studies with direct methods using small accelerators** **György Gyürky**, *ATOMKI, Hungary*
15:55 – 16:30	**Nuclear equation of state and physics of compact stars** **Adriana Raduta**, *Horia Hulubei National Institute for Physics & Nuclear Engineering, Romania*
16:35 – 16:45	Coffee break
16:45 – 17:20	**From nuclei to stars – a case in point** **Adriana Banu**, *James Madison University, United States*
17:25 – 17:40	Breakout session
17:40 – 17:52	**Direct alpha-capture measurement of the 13N(α,p)16O reaction using the MUlti-Sampling Ionization Chamber (MUSIC) relevant for Type Ia supernovae** **Heshani Jayatissa**, *Argonne National Laboratory, United States*
17:55 – 18:07	**Neutron-capture rates in massive stars: relevance for cosmochemistry** **Hannah Elisabeth Brinkman**, *Konkoly Observatory, Hungary*
18:10 – 18:30	Round table discussion

Guidelines for participants of SNAQs

Please, …

- … rename yourself in the Zoom sessions to match your registration name and institution – this will serve as your “nametag”.

- … mute your microphone during talks.

- … use the public chat only for questions related to the lecture; for discussions, please use the private chat.

- … write your questions in the chat – due to the high number of participants, a moderator will read a selection of questions but can choose a limited number only.

- … use breakout rooms to talk and chat to each other in smaller groups. Breakout rooms will be available during coffee breaks; participants can choose rooms freely.

- … behave professionally and respectfully
- … follow ethical standards as professional integrity and honesty
- … foster a welcoming and inclusive work environment

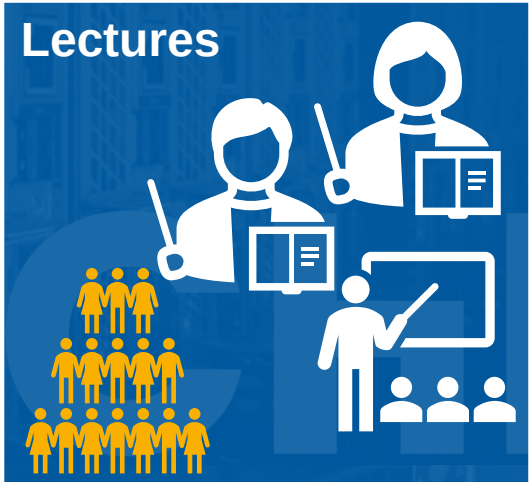
Online Attendance Certificates

Please contact Mohamad Moukaddam moukaddam@unistra.fr

The focus of SNAQs is on interaction between participants

establish contacts for scientific networking, so briefly introduce yourself

Lectures



for all participants

Moderated questions

from a few participants

Breakout session

Talk about the lecture
Clarify lecture items
Phrase questions

in small groups

Scientific talks

for all participants

Moderated questions

from a few participants

Round table discussion

for all participants

ChETEC-INFRA Transnational Access

Access to 13 Research Infrastructures in Nuclear Astrophysics:

- ★ **Astronuclear High Performance Computing**
  - University of Hull (UHULL) viper HPC, *United Kingdom*
- ★ **Astronuclear Laboratories (AMS, Reactions with Ion Beams)**
  - HZDR DREsden Accelerator Mass Spectrometry (DREAMS), *Germany*
  - HZDR Felsenkeller, *Germany*
  - Vienna Environmental Research Accelerator (VERA), *Austria*
  - Goethe University Frankfurt Van de Graaff accelerator, *Germany*
  - PTB Ion Accelerator Facility (PIAF), *Germany*
  - University of Cologne 10MV Tandem accelerator, *Germany*
  - ATOMKI Cyclotron, *Hungary*
  - IFIN-HH 3MV Tandetron, *Romania*
- ★ **Astronuclear Telescopes**
  - IANAO Rozhen National Astronomical Observatory, *Bulgaria*
  - ASU Perek 2m Telescope, *Czech Republic*
  - Aarhus University Nordic Optical Telescope (NOT), *Denmark*
  - Vilnius University Molėtai Astronomical Observatory (MAO), *Lithuania*

Apply for user time at

https://gate.hzdr.de/user/

More information at

https://www.chetec-infra.eu/infrastructures/

Announcement: Next SNAQ on Wednesday, September 8, 2021 at 15:00 CEST (09:00 EDT)

Question

How to study stars from underground laboratories and deep-sea samples?

Website

https://events.hifis.net/e/snaqs-sep2021

Call for abstracts

We highly encourage **young scientists** (master and PhD students, as well as young postdocs) to apply for **scientific talks** related to the question above. If you are interested, please submit an abstract of your talk at the lower end of the registration form.

Deadline for abstract submission is Wednesday, August 25, 2021.