

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



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Question in January 2021

What is the link between radioactive nuclei and astrophysics?

Timetable (15:00 – 18:30 CET, 09:00 – 12:30 EST)

15:00 – 15:05 Welcome and Introduction

Konrad Schmidt, *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

15:05 – 15:10 European Summer School on Experimental Nuclear Astrophysics

Gianluca Pizzone, *Laboratori Nazionali del Sud, Italy*

15:10 – 15:55 **Techniques to constrain r-process reaction rates**

Artemis Spyrou, *Michigan State University, USA*

16:05 – 16:50 **Astrophysics and unstable nuclei: Indirect method for radioactive ion beam experiments**

Giuseppe Gabriele Rapisarda, *University of Catania, Italy*

17:00 – 17:20 Coffee break and breakout session

17:20 – 17:32 **Actinide-dating stars: Nuclear uncertainties in cosmic age**

Kelsey Lund, *North Carolina State University, USA*

17:35 – 17:47 **Determining neutron-induced reaction cross sections through surrogate reactions at storage rings**

Jacobus Swartz, *Centre d'Etudes Nucleaires de Bordeaux Gradignan, France*

17:50 – 18:02 **Triple radio-frequency quadrupole trap system for measuring neutron capture cross sections of short-lived isotopes**

Heinrich Wilsenach, *Justus-Liebig-Universität Gießen, Germany*

18:05 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

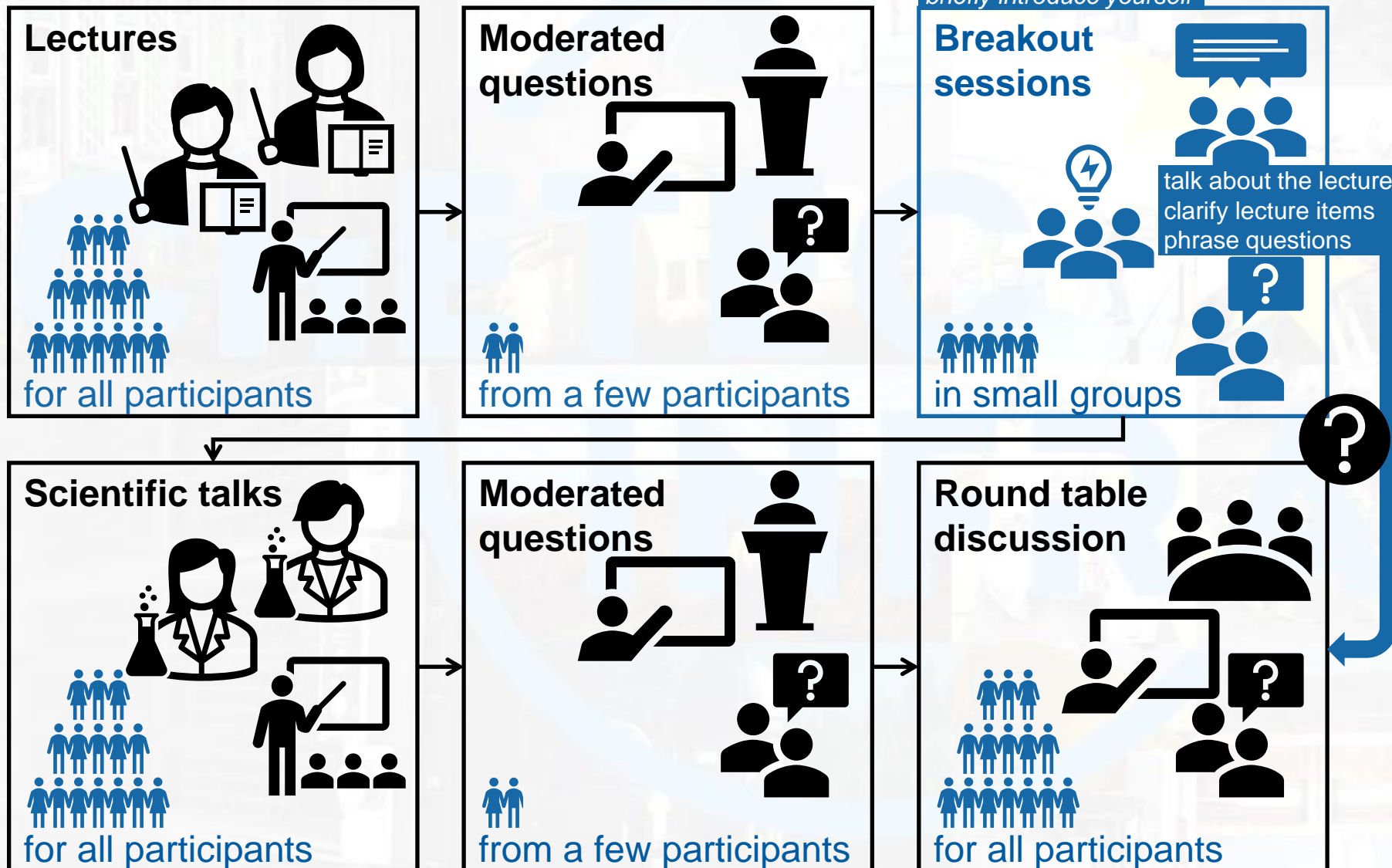
Online Attendance Certificates



Please contact Marcel Heine
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The focus of SNAQs is on interaction between 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

- IANA0 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/tna/>

Announcement: Next **SNAQ** on Wednesday, February 9, 2022 at 14:00 CET (08:00 EST)



Question

How to model a star in your laptop?

Website

<https://events.hifis.net/e/snags-feb2022>

Call for abstracts

We highly encourage **young scientists** (Master's 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, February 2, 2022.