### ChETEC-INFRA SNAQS [snacks] Schools on Nuclear Astrophysics Questions



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008324 (ChETEC-INFRA).

Question in December 2021 under Does Nuclear Astrophysics probe fundamental physics?

Timetable (14:00	0 – 17:30 CET, 08:00 – 11:30 EST, 07:00 – 10:30 CST)
14:00 - 14:10	Welcome and Introduction
	Konrad Schmidt, Helmholtz-Zentrum Dresden-Rossendorf, Germany
14:10 - 14:20	Carpathian Summer School of Physics
	Livius Trache, IFIN-HH Romania
14:20 - 15:05	<b>Big-Bang Nucleosynthesis as a Probe of Fundamental Physics in the</b>
	Early Universe
	Brian D. Fields, University of Illinois, USA
15:15 – 16:00	Nuclear reactions for Standard Solar Models
	Aldo Serenelli, Institute of Space Science, Spain
16:10 - 16:30	Coffee break and breakout session
16:30 – 16:45	Cross section measurement of the ${}^{3}$ He( $\alpha$ , $\gamma$ ) ${}^{7}$ Be reaction with $\gamma$ -
	spectroscopy
	Ákos Tóth, ATOMKI, Hungary
16:50 – 17:05	Underground measurement of the $D(p,\gamma)^{3}$ He reaction: nuclear and
	cosmological implications
	Nikhil Mozumdar, University of Padova, Italy
17:10 – 17:30	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

Chilin

2021

#### The focus of SNAQs is on interaction between participants establish contacts for scientific networking, so



CHETEC

# **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/tna/









### Announcement: Next SNAQ on Wednesday, January 12, 2022 at 15:00 CET (09:00 EST)



Question What is the link between radioactive nuclei and astrophysics?

#### Website

https://events.hifis.net/e/snaqs-jan2022

#### **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, January 5, 2022.