

ChETEC-INFRA 5th General Assembly

Chemical Elements as Tracers for the Evolution of the Cosmos – Infrastructures for Nuclear Astrophysics

Daniel Bemmerer, HZDR Dresden/Germany

17.09.2025 - Dresden

Welcome to Dresden!

- ♦ EU Horizon 2020 **Starting Community of Research Infrastructures** to serve nuclear astrophysics
- ♦ H2020-INFRAIA-2020-1
- ♦ **31 partners** in 17 EU+ countries
- ♦ 1 May 2021 – 31 October 2025
- ♦ 5.0 M€ support by European Union
- ♦ **14 research infrastructures** offer EU-supported transnational access, selection based on scientific merit

<https://www.chetec-infra.eu>



Welcome to Dresden

- ◆ Dresden has 500,000 inhabitants, is State capital of Saxony
- ◆ Church of our Lady (Frauenkirche) re-built after destruction in World War II
- ◆ Semper Opera House, Royal Castle, Zwinger Palace
- ◆ „Green Vault“ collection of jewelry
- ◆ Mathematical-Physical Salon



Surrounding Dresden

- ◆ „Saxonian Switzerland“ area with scenic sandstone rocks
- ◆ Steam engine railroads (several separate lines)



Technical University of Dresden (TU Dresden)

- ◆ One of 11 German universities with title „Excellent University“ (since 2012)
- ◆ 36,000 students / 1,000 physics students
- ◆ LHC: ATLAS collaboration
- ◆ Neutrino physics: SNO+, DARWIN, GERDA, ISOLTRAP (Kai Zuber *et al.*)
- ◆ Nuclear astrophysics: R³B, ISOLTRAP collaborations

Helmholtz-Zentrum Dresden-Rossendorf (HZDR)

- ◆ Former Central Institute of Nuclear Research of East Germany (1956 – 1990)
- ◆ 1,400 staff
- ◆ Felsenkeller 5 MV underground accelerator
- ◆ DREAMS 6 MV accelerator mass spectrometry lab, new HAMSTER 1MV AMS lab
- ◆ ELBE 40 MeV electron accelerator
- ◆ Ion beam center
- ◆ Liquid-sodium dynamo experiment (under construction)
- ◆ R³B, LUNA, NucAR collaborations



Aims of this meeting

- ◆ Concluding Meeting of ChETEC-INFRA Starting Community of Research Infrastructures
- ◆ Transnational Access Users' Meeting
- ◆ Some mandatory reporting, and a lot of scientific discussion

Wednesday morning 9:00 – 12:35

- ◆ Opening, science talks, WP reports

Wednesday afternoon 13:30 – 17:45

- ◆ Science talks, WP reports, project talks
- ◆ Mandatory reports to General Assembly
- ◆ GA Business Session (no votes planned)

Wednesday 19:30 social dinner

- ◆ Augustiner an der Frauenkirche

Thursday morning 9:00 – 12:25

- ◆ WP reports, and science talks
- ◆ Group photo!

Thursday afternoon 13:25 – 15:35

- ◆ Science talks, and local highlights
- ◆ Closing

Thursday optional lab visits

- ◆ Felsenkeller underground lab
- ◆ HZDR Rossendorf: AMS, ELBE, DT generator

Netzwerkname (SSID):
Dreikoenig-GAST

Passwort:
weimar1919



- ◆ Coffee breaks are provided at the back of this room.
- ◆ Lunch tickets are handed out at registration.
- ◆ Lunch is provided upstairs in this building, self-service – several options.

Looking for divine inspiration:

- ◆ Church of the three wise men can be visited – just the next room.

Looking for an overview of the city:

- ◆ You can climb 254 steps on the tower of the building, enter at the very back of the church room (or circle the building) – open 11:00 – 17:00, ticket 5 €

Social dinner tonight

- ◆ Restaurant “Augustiner“, address: An der Frauenkirche 13, Dresden
- ◆ 20 minute walk across the ELBE, passing the historical center
- ◆ Tram stop „Pirnaischer Platz“

Presentations

- ◆ We aim to make all presentations available on the indico page of the meeting:
- ◆ <https://events.hifis.net/e/chetec-infra-ga5>



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Please upload your slides via the upload link provided via e-mail, including your name in the file name:

- ◆ <https://datashare.tu-dresden.de/s/L9CKLiyPZJRjm2M>
- ◆ If you need to remove sensitive material, please provide a separate version for the web page.



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