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**TECHNISCHE
UNIVERSITÄT
DRESDEN**

HZDR
HELMHOLTZ ZENTRUM
DRESDEN ROSSENDORF

Spanish-German Bi-National WE Heraeus Seminar on Interdisciplinary Physics of the Sun

Bad Honnef, Germany, 29 June – 4 July 2025

<https://www.we-heraeus-stiftung.de/veranstaltungen/interdisciplinary-physics-of-the-sun/>

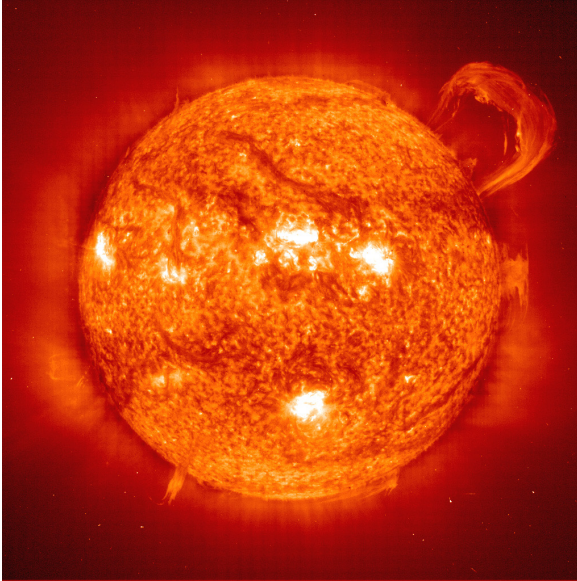
<https://events.hifis.net/e/intersun>

**Daniel Bemmerer
Markus Roth
Aldo Serenelli**

**Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Germany
Thüringer Landessternwarte Tautenburg (TLS) and Uni Jena, Germany
CSIC Institute of Space Sciences, Barcelona, Spain**

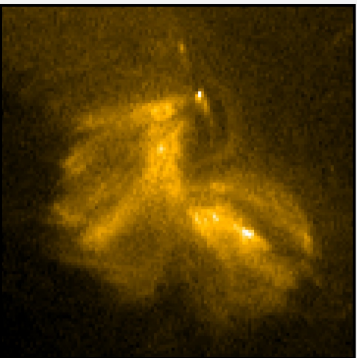
Scientific scope

<https://events.hifis.net/e/intersun>

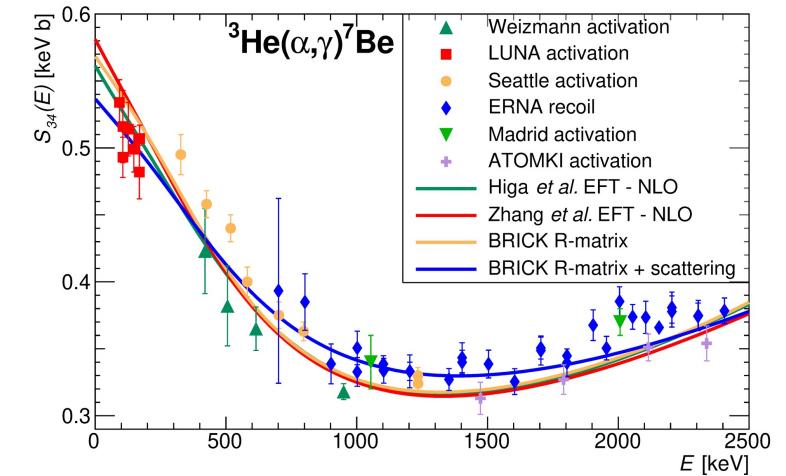
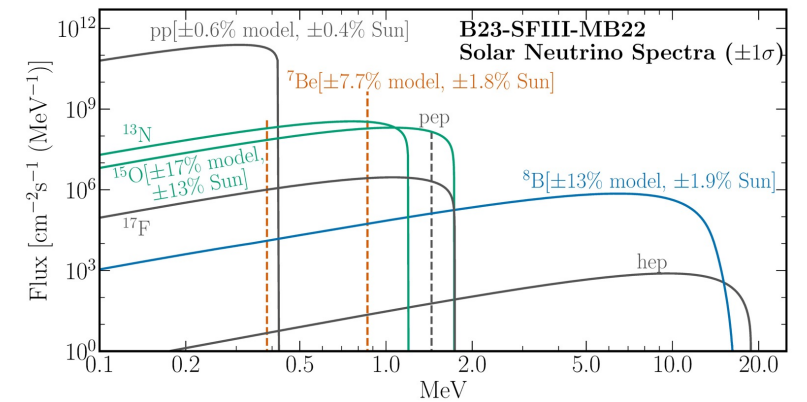


The physical understanding of our Sun as foundation science.

- ◆ The Sun as a calibrated neutrino source.
- ◆ Reactions and decays of light nuclei under plasma conditions.
- ◆ Magnetohydrodynamics.
- ◆ The Sun as a benchmark for stellar models.
- ◆ Stellar structure, evolution, and seismology.
- ◆ Advanced telescopes and space missions
- ◆ The Sun's magnetic field on the surface and the atmosphere.
- ◆ The solar wind.
- ◆ and many more



CBP from Solar Orbiter



Scientific organizers

<https://events.hifis.net/e/intersun>

Prof. Dr. Daniel Bemmerer

- ◆ Helmholtz-Zentrum Dresden-Rossendorf, Felsenkeller underground ion accelerator
- ◆ Study of nuclear reactions in the Sun
- ◆ ChETEC-INFRA EU project (2021-2025)



Prof. Dr. Markus Roth

- ◆ Director, Thüringer Landessternwarte Tautenburg and University of Jena
- ◆ Helio- and asteroseismology
- ◆ SOLARNET EU project (2019-2023)



Dr. Aldo Serenelli

- ◆ Director, CSIC Institute of Space Sciences, Barcelona
- ◆ Keeper of the standard solar model
- ◆ Solar chemical abundances



Structure of this meeting

<https://events.hifis.net/e/intersun>

15 scientific sessions

- ◆ Invited lectures on major topics (40 minutes + 10 minutes for discussion)
- ◆ Contributed talks (15 minutes + 5 minutes for discussion)
- ◆ Monday+Tuesday, also poster pitches (3 minutes sharp, no discussion)

Posters

- ◆ Posters will be on display for the duration of the meeting
- ◆ Dedicated poster session Tuesday afternoon.
- ◆ Poster prizes (100 € each) sponsored by WE Heraeus (ceremony Wednesday evening)

Excursion

- ◆ Wednesday afternoon, to be updated / shortened based on the weather

Discussion on possible Priority Programme by DFG German research foundation

- ◆ Thursday morning, including a DFG representative – mainly interesting for people affiliated in Germany

What to keep in mind

<https://events.hifis.net/e/intersun>

The meeting, and most individual sessions, are interdisciplinary!

- ◆ Strive to make your presentations understandable to specialists in neighboring disciplines!
- ◆ Stupid, basic **questions are okay** – they should be asked, and answered!
- ◆ Use the extensive coffee breaks, the dinner, and the excursion to deepen your understanding!

Presentation slides and posters

- ◆ **Provide your presentation slides** well before the start of the session to the PC in the lecture hall.
- ◆ Presentation slides and posters (but not poster pitches) will be made available via the indico page of the meeting.
- ◆ Please provide a PDF version by cloud upload (preferred), e-mail, USB stick, for the indico page
- ◆ Before submitting the PDF, please remove any material that is not suited for the web (e.g. unpublished data)

Poster prizes

- ◆ The invited lecturers and scientific organizers cast votes on their favorite three posters, on sheets provided.
- ◆ Deadline for poster prize votes is Wednesday before lunch.
- ◆ Poster prize ceremony Wednesday at dinner.

Practical points

<https://events.hifis.net/e/intersun>

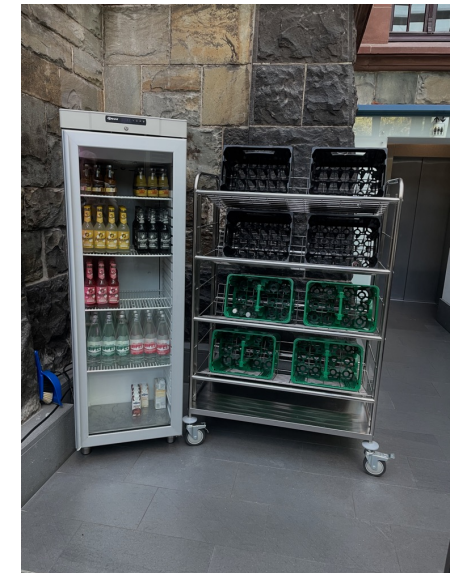
Accommodation in Physik - Zentrum

- ◆ Your room key (transponder) serves also to open the building doors.
- ◆ After leaving your room, you have to manually lock your room door in the same way.



Food and beverages

- ◆ Breakfast, lunch, and dinner are generously provided by the WE Heraeus foundation.
- ◆ Water (in the 1 liter bottles) is also provided free of charge.
- ◆ However, drinks other than water (taken from the refrigerated cupboards) and beer on tap are **your** responsibility.
- ◆ Please make a tick in the lists provided for the drinks you take, and **pay the reception at checkout**.
- ◆ In the city center of Bad Honnef (15 minutes walk) there are a few restaurants and bars, also a pharmacy and shops.



Prevent fire:



Smoking and open fire
in the building
are strictly forbidden

- there is a smoke detector
in every guest room!



Fire brigade false-alarm-visit costs 1000 €



In case of fire:

<https://events.hifis.net/e/intersun>

- Stay calm
- Close windows and doors
- leave the building immediately:
 - Do not use elevator, use the stairs

In case of fire:

<https://events.hifis.net/e/intersun>

- Alert others (sleeping or having headsets)
- Help people with special needs

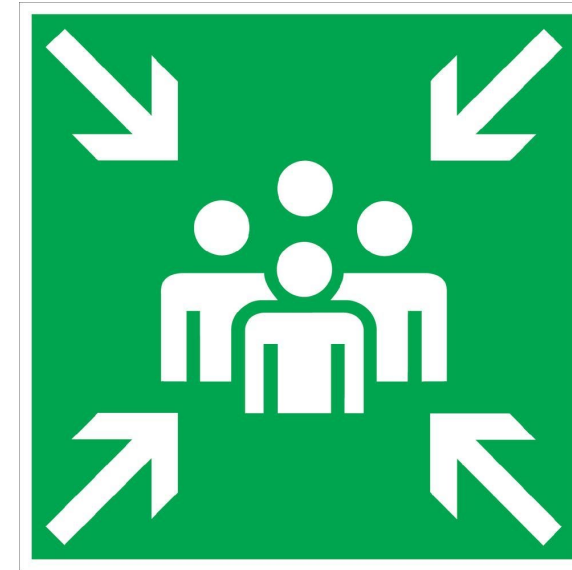


- If an alarm unit is on your way out, use it!

German manual
call point:
Break the glass and
press the button!



<https://events.hifis.net/e/intersun>



In a safe location,
call **112**
to report
the emergency



