



Erlangen, June 5, 2023

Bulletin 1

School for Astroparticle Physics October 4–12, 2023, Obertrubach-Bärnfels, Germany

1. General Information

The 18th edition of the annual *School for Astroparticle Physics* will be held in Obertrubach-Bärnfels in the countryside near Erlangen from 4th to 12th October 2023. The School addresses graduate and PhD students from all fields of experimental and theoretical astroparticle physics. Further information on the 2023 School can be found at

<https://www.astroteilchenschule.nat.fau.de>



The *School for Astroparticle Physics* offers education in a wide range of selected topics from astrophysics, particle physics and cosmology, as well as in-depth coverage of topical developments in astroparticle physics. A further goal of the School is to stimulate contacts between participants and lecturers and to strengthen long-term cooperation and networking in the community of astroparticle physicists. The School combines education, discussion and contributions by the participants. The program includes: (i) Lectures of 3x90 minutes each about central topics; (ii) Presentations (90 minutes) about special topics; (iii) Complementary evening lectures about topics related (or less related) to astroparticle physics; (iv) Talks of the participants, in which they present their own work; (v) Discussions about the lectures. Furthermore, the extended lunch breaks, the evenings and the free Sunday allow for joint activities and stimulation of contacts between participants and lecturers.

2. Location and Accommodation

Gasthof Drei Linden offers good-value accommodation, full-board meals (including vegetarian options), the required infrastructure as well as a very comfortable atmosphere. The participation fee of 400 € includes the accommodation in twin rooms with bathrooms as well as breakfast buffet, mid-morning coffee, lunch, afternoon coffee with cake, and dinner. Beverages are not included and have to be paid extra. The location of Obertrubach-Bärnfels in the greater area of Nürnberg/Erlangen/Bamberg/Bayreuth is indicated in the following map. Detailed information about arrival and traffic links will be provided in the second bulletin.



<https://goo.gl/maps/489FoGD1FB32>

3. Programme

Lectures (3 × 90 minutes):

Caren Hagner	(University of Hamburg)	Low-energy Neutrinos
Sarah Heim	(DESY)	Higgs physics
Philipp Mertsch	(RWTH Aachen)	Galactic Cosmic Rays
Kai Schmitz	(University of Münster)	Physics at the Pulsar Timing Frontier

Talks (90 minutes):

Christian Fromm	(JMU Würzburg)	Black holes
Michèle Heurs	(AEI Hannover)	Gravitational Waves Detection
Manami Sasaki	(FAU Erlangen-Nürnberg)	eROSITA
Wayne Springer	(University of Utah)	SWG0

Evening lectures (60 minutes):

Marc Hempel	(PT.DESY)	Research Funding in Germany and Europe
Christian Stegmann	(DESY)	DZA (German Center for Astrophysics) (tbc)

Special event :

Anna Nelles	(FAU Erlangen-Nürnberg)	Proposal writing
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4. Registration and Organisation

Registration:

Registration for the School is via the website

<https://www.astroteilchenschule.nat.fau.de>



Please consider that the number of participants is limited to about 35.

1. Registration is possible until 25th June 2023, 12 pm. If the number of registrants exceeds 35 at this time, registration will be closed and the participants will be selected (see point 2). If less than 35 people are registered at the deadline, registration will be extended.
2. If there are more than 35 registrants, a selection will be made by the organisation committee under individual consideration of the applications and in consultation with the registrants. Points to be taken into account are, among others, the registration date, the contingents of the delegating institutions as well as the possibility of the registrant to participate in the following year.

3. Registrants from outside Europe, i.e. the Schengen area, will be cordially welcome. Excluded are participants with primary affiliation to Russian or Belarusian institutions, who will not be admitted to the 2023 school due to the current situation. Applicants who require a visa should contact the organizers (ecap-at-schule@fau.de) as early as possible. In order to support you with your visa application, please have a letter of recommendation sent from your supervisor. This letter should contain confirmation that your travel expenses and the participation fee will be covered by your home institution. We will then send you a letter of invitation which you will need for the visa application.

Each participant is expected to present their current research work in a talk of 15 minutes maximum duration. The title and abstract of this talk are mandatory parts of the registration. Requests concerning twin-room assignment, as well as suggestions can be placed in the field *remarks* during the registration.

Participation fee:

The fee amounts to 400 € per participant. By 16th July 2023 at the latest, each participant will receive a confirmation email including the instructions for the bank transfer.

Organising committee: Thomas Eberl, Sebastian Fiedelschuster, Stefan Funk, Kay Graf, Christian Haack, Jürgen Höbl, Ira Jung-Richardt, Uli Katz, Claudio Kopper, Robert Lahmann, Alison Mitchell, Anna Nelles, Martin Rongen, Manami Sasaki, Lisa Schumacher, Christopher van Eldik, Jörn Wilms
& Andreas Zmija (ECAP, FAU Erlangen-Nürnberg)
and Julian Rautenberg (University of Wuppertal)

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