



Erlangen, July 22, 2022

Bulletin 1

School for Astroparticle Physics October 5–13, 2022, Obertrubach-Bärnfels, Germany

1. General Information

The 17th edition of the annual *School for Astroparticle Physics* will be held in Obertrubach-Bärnfels in the countryside near Erlangen from 5th to 13th October 2022. The School primarily addresses graduate and PhD students from all fields of experimental and theoretical astroparticle physics. Further information on the 2022 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 programme includes: (i) Lectures of 3x90 minutes each about central topics of astroparticle physics; (ii) Presentations (90 minutes) about special topics of astroparticle physics; (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) Exercises and 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, the required infrastructure as well as a very comfortable atmosphere. The participation fee of around 400 € (note that the exact amount will be announced to participants upon registration) 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):

Jonas Glombitza	(FAU)	Deep Learning in Astroparticle Physics
Jim Hinton	(MPIK Heidelberg)	Gamma-ray astronomy
Anna Nelles	(FAU)	High-energy neutrino astronomy
tba		

Talks (90 minutes):

Andreas Bauswein	(GSI Darmstadt)	Nuclear astrophysics of neutron star mergers
Silvia Celli	(U. Rome)	Astrophysical acceleration processes
Susanne Mertens	(TU München)	KATRIN
Andrew Taylor	(DESY Zeuthen)	Gamma Ray Bursts and Gamma rays
Eli Waxman (tbc)	(WIOS Rehovot)	ULTRASAT

Evening lectures (60 minutes):

Marc Hempel	(PT DESY)	Research Funding in Germany and Europe
Christian Stegmann	(Desy Zeuthen)	Deutsches Zentrum für Astrophysik (tbc)

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. The number is valid under the current German Covid-19 restrictions and may change if the Covid-19 regulations change.

1. Registration is possible until 1st September 2022, 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, amongst others, the registration date, the contingents of the delegating institutions as well as the possibility of the registrant to participate in the following year. Those registered until 1st September 2022, will be informed until 15th September 2022 about their admission.

3. Registrants from outside Europe, i.e. the Schengen area, will be cordially welcome but are advised to inform themselves in advance about the visa and Corona conditions. They 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 a 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 her/his current research work in a talk of 15 minutes length. Title and abstract of this talk are mandatory parts of the registration and have to be submitted until 1st September 2022. They may be provided after the initial registration via the registration website. Requests concerning twin-room assignment, special requirements for food (e.g. vegetarian or vegan) as well as suggestions can be placed in the field *remarks* during the registration.

Participation fee:

The fee amounts to about 400 € per participant, the final fee may deviate slightly from this amount. By 15th September 2022, the latest, each participant will receive a confirmation email including the instructions for the bank transfer. In the case of registration after 15th September 2022, this email will be sent immediately after the registration.

Organising committee: Maddalena Cataldo (University Erlangen-Nürnberg, ECAP)
Thomas Eberl (University Erlangen-Nürnberg, ECAP)
Sebastian Fiedelschuster (University Erlangen-Nürnberg, ECAP)
Stefan Funk (University Erlangen-Nürnberg, ECAP)
Kay Graf (University Erlangen-Nürnberg, ECAP)
Jürgen Höbl (University Erlangen-Nürnberg, ECAP)
Vikas Joshi (University Erlangen-Nürnberg, ECAP)
Ira Jung-Richardt (University Erlangen-Nürnberg, ECAP)
Uli Katz (University Erlangen-Nürnberg, ECAP)
Robert Lahmann (University Erlangen-Nürnberg, ECAP)
Alison Mitchell (University Erlangen-Nürnberg, ECAP)
Anna Nelles (University Erlangen-Nürnberg, ECAP)
Julian Rautenberg (University Wuppertal)
Manami Sasaki (University Erlangen-Nürnberg, ECAP)
Christopher van Eldik (University Erlangen-Nürnberg, ECAP)
Jörn Wilms (University Erlangen-Nürnberg, ECAP)
Andreas Zmija (University Erlangen-Nürnberg, ECAP)

Contact:

Email: ecap-at-schule@fau.de