

## Gran Sasso Hands-On 2025 - First bulletin

Dear Colleagues,

We are excited to invite applications for the new edition of the **Gran Sasso Hands-On PhD School on Astroparticle Physics**, to be held at the [Laboratori Nazionali del Gran Sasso](#) (L'Aquila, Italy) from the **8th to the 19th of September 2025**.

The School is jointly organized by the [Laboratori Nazionali del Gran Sasso \(LNGS\)](#), the [Department of Physical and Chemical Sciences of the University of L'Aquila](#) and the [Gran Sasso Science Institute](#).

This school is designed for graduate students and early-career researchers who are interested in pursuing research in Experimental Astroparticle Physics.

Over the course of this two-week program, participants will have the unique opportunity to learn from leading experts in the field through a combination of lectures, hands-on activities, and collaborative research projects. They will have access to **state-of-the-art research facilities and equipment**, to take part in experimental activities within specific projects, ranging from hardware operations to data analysis and simulation.

Topics covered will include:

- Cosmic-ray physics
- General Relativity
- Multi-messenger Astrophysics
- Dark matter searches
- Neutrino physics
- Nuclear astrophysics
- Quantum technologies
- Space-based detectors

In addition to formal instruction, participants will have the chance to engage in informal discussions and networking events with fellow students and faculty members. We anticipate a rich program of social and outreach activities.

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This PhD school is open to students and early-career researchers from a variety of academic backgrounds, including physics, astronomy, engineering, and computer science. Successful applicants will have a strong academic record and a demonstrated interest in astroparticle physics.

Registrations will soon open at the following link <https://agenda.infn.it/event/hands-on-2025>. Applications must be received by the end of **April 2025**, and successful applicants will be notified by **June 2025**.

We strongly encourage applications from underrepresented groups in physics.

Don't miss this exciting opportunity to deepen your knowledge of astroparticle physics and build connections with fellow researchers in the field.

We look forward to receiving your application!

Sincerely,

Paolo Agnes (GSSI)

Carla Macolino (L'Aquila University)

Nicola Rossi (LNGS)

*on behalf of the LOC*