

EURIZON detector school

Monday, 17 July 2023 - Friday, 28 July 2023

Wuppertal, Germany

Scientific Programme

The EURIZON Detector School is organized for training young scientists on state-of-the-art particle detection technologies in the fields of particle-, heavy-ion- and neutron-physics. The main program of the school comprises morning lectures by world experts in their fields, and hands-on exercises on various technologies in the afternoons. Social activities are organised during evenings and on the weekend.

The preliminary list of lecture topics:

- Calorimetry
- Characterization of detectors
- Communication in science, presentation skills
- Evolution of working detector systems from R&D to construction, operation and performance
- Gaseous detectors
- Neutron detectors
- Non-collider detectors
- Particle identification
- Photodetection
- Quantum sensing
- Readout- FPGA- trigger- DAQ- synchronization
- Silicon detectors
- Tracking

The school will also include practical courses that will allow the students to put their hands on various detectors and test them under the supervision of experts.

Students will be given opportunity to present their work. This activity will connect closely with the science communication tutorial.