

EURIZON detector school

Monday, July 17, 2023 - Friday, July 28, 2023

Wuppertal, Germany

Scientific Program

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.