

EDIT 2026 school

Draft

General

EDIT (Excellence in Detector and Instrumentation Technologies) is a series of schools aimed at young researchers, including graduate students and early-career postdocs, who seek to deepen their knowledge of detector technologies and instrumentation for particle physics.

Rotating across Europe, Asia, and North America, the EDIT Schools provide a unique opportunity for participants to learn about a wide range of detector technologies and experimental methods through academic courses and hands-on laboratories. This approach is especially valuable for physicists seeking to understand the performance and limitations of state-of-the-art technologies used in major experiments.

By broadening their understanding of detectors beyond their specific areas of expertise, participants will enhance their skills in operating these technologies, fostering innovation in R&D and data interpretation.

Students

48 places which will be split in 8 groups of 6 students per group.

Maintain small group size to encourage hands-on activities in laboratory exercises.

School program - Preliminary

The program consists of academic lectures, invited talks and laboratory exercises over 11 days.

	Day1 (TUE 3.3.26)	Day2 (WED)	Day3 (THU)	Day4 (FRI)	Day5 (SAT)
8:30-9:30		Lecture 1 (Part 1)	Lecture 1 (Part 2)	Lecture 3 (Part 1)	Visit
break					
9:45-10:45	WELCOME (DG / RD)	Lecture 2 (Part 1)	Lecture 2 (Part 2)	Lecture 4 (Part 1)	
break					
11:00-12:30	Lectures and Laboratory Introduction	Invited Talk 1	Invited Talk 2	Invited Talk 3	
Lunch 12:30-14:00					
14:00-16:00	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Free
break					
16:30-18:30	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	
18:30 - 21:00		Poster session 1 & Wine/Food	Poster session 1 & Wine/Food		
	Day7 (MON 9.3.26)	Day8 (TUE)	Day9 (WED)	Day10 (THU)	Day11 (FRI)
	Lecture 3 (Part 2)	Lecture 5 (Part 1)	Lecture 5 (Part 2)	Lecture 7 (Part 2)	Students Contributions
	Lecture 4 (Part 2)	Homework Time	Lecture 7 (Part 1)	Homework Time	Students Contributions
	Invited Talk 4	Invited Talk 5	Invited Talk 6	Invited Talk 7	
	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Laboratory 1-7 (part 1)	Closing Sessions
	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	Laboratory 1-7 (part 2)	
		Social Dinner			

Lab exercises - Preliminary

Laboratory exercises will be organised by tutors.

Each group of 6 students will have one afternoon working on each laboratory topic.

Preliminary list of laboratory topics:

- Silicon Detectors
- Gaseous Detectors
- Photon Detectors
- Signal Processing and Front End Electronics
- Detector Modelling and Simulation
- DAQ and Trigger
- Beam Instrumentation/Radiation Monitoring and Instrumentation
- (Visits)

Within each laboratory topic, students may be split into smaller groups of 2 or 3 students and may work on different setups/activities.