

hands on particle physics





HIGH SCHOOL STUDENTS DISCOVER

THE WORLD OF PARTICLE PHYSICS

Each year more than 13.000 high school students in 52 countries come to one of about 200 universities or research centres for one day in order to unravel the mysteries of particle physics.

Are you interested in joining?

Contact for CERN: uta.bilow@tu-dresden.de
Contact for Fermilab: Kenneth.W.Cecire.1@nd.edu

FOR 15- TO 19-YEAR OLD STUDENTS

HELD AT
UNIVERSITIES AND
RESEARCH LABS
WORLDWIDE

ORGANIZED EVERY
YEAR IN
MARCH/APRIL

DURATION: 1 DAY

FREE OF CHARGE







"The Masterclass was an incredible experience for me because it makes "real" particle physics accessible to even high school students."

MORGAN LOGSDON,

STUDENT (GRADE 11) MILLS E. GODWIN HIGH SCHOOL, VIRGINIA, USA

MASTERCLASS DAY:

- Introduction to particle physics.
- Tour of facilities/lab.
- · Lunch with physicists.
- LHC data analysis (measurement activity)
- · Discussions of results.
- Video conference for discussion and combination of results between the institutes and moderators at CERN or Fermilab.

STUDENTS WILL:

- Go to a nearby university or research centre.
- Learn about basic research on matter and forces
- Perform measurements on real data from particle physics experiments at CERN.
- Participate in an international video conference to discuss results.

WE PROVIDE:

- Step-by-step guide for preparation.
- Example lectures.
- Information on the measurements.
- A manual for the video conference.
- Corporate material (logos, poster, invitation letters, participation certificates).
- Press release template.