

Institute of Physics (IoP) Academy of Sciences of the Czech Republic

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Who we are
What we are doing
Our collaborators

Who we are

IoP is one of 53 research Institutes making up the **Academy of Sciences of the Czech Republic (AS CR)** which pursues research in

- ↳ Mathematics, Physics and Informatics
- ↳ Applied Physics
- ↳ Earth Sciences
- ↳ Chemistry
- ↳ Biology and Medicine
- ↳ Ecology
- ↳ Social Sciences & Economics
- ↳ Humanities

Founded in early 1950's, now with ≈ 7000 employees including ≈ 2000 researchers, AS CR is dedicated mainly to **basic research**.

with ≈ 700 employees including 230 scientists, **IoP** is by far the largest Institute of AS CR.

Its research programme covers broad range of projects in

- ➡ solid state physics
- ➡ optics
- ➡ plasma and laser physics
- ➡ **particle physics** (≈ 40 physicists, 20 technicians)

What we are doing

☞ Accelerator based experiments

at DESY: H1

Fermilab: D0

CERN: ATLAS, ALICE, TOTEM

☞ Astroparticle Physics: building and running Pierre Auger Observatory in Argentina

☞ R&D on detectors for ILC & other applications

☞ Theory:

Mathematical aspects of QFT

Standard Model Phenomenology (QCD)

Our collaborators

Particle Physics in CR mostly in Prague

Our principal collaborators:

Charles University :H1, D0, ATLAS, Auger
Technical University :D0, ATLAS

On ALICE collaboration with
Institute for Nuclear Physics of AS CR

Funding for research projects through
Ministry of Education