

## **PhD studies in LHCb at CERN**

The NCBJ group, participating in the LHCb experiment at CERN, invites candidates willing to work and make their PhD theses in LHCb, in the framework of the NCBJ PhD College. The LHCb is one of the major experimental facilities at the Large Hadron Collider at CERN in Geneva.

Subject areas:

- Investigation of discrete symmetries CP and CPT in weak decays of mesons and baryons containing heavy quarks charm c and beauty b.
- Search for exotic hadronic states: tetraquarks, pentaquarks and heavy resonances with non-zero charm or beauty.
- Search for phenomena beyond Standard Model in leptonic or semileptonic decays of heavy quarks.
- Advanced IT solutions, including intensive data processing on the Grid or cloud virtualization, and others.

Interested candidates may contact the group leader ([wojciech.wislicki@ncbj.gov.pl](mailto:wojciech.wislicki@ncbj.gov.pl)) or any other physicist in the LHCb group.