



Heavy-ion studies in the ATLAS experiment and beyond

The ATLAS group at the AGH University of Science and Technology (AGH UST) in Kraków, Poland, is inviting applications for a 2-year (+possible extension) postdoctoral position scheduled to start in summer 2021 or shortly after.

The ATLAS group at the AGH UST consists of 10 permanent physicists, 3 postdoctoral researchers, 1 project researcher and 4 PhD students, with a large variety of interests and activities. Among various research topics, the group has been involved in the heavy-ion programme in the ATLAS Collaboration since 2010. The group was contributing to many important measurements based on both LHC Run-1 and Run-2 lead-lead, proton-lead, and reference proton-proton data. In particular the AGH UST group contributed to measurements with electroweak bosons, flow and correlations in minimum-bias and high-multiplicity collisions, as well as as it has been leading measurement that resulted in the observation of the rare light-by-light scattering process.

The postdoctoral researcher will work on the heavy-ion programme of the ATLAS Collaboration, as well as will contribute to the operation of the detector at CERN. Among various research topics, she/he might take a leading role in measurement of top-quark pair production in proton-lead collisions. The successful candidate will have an opportunity to supervise students involved in the project. A significant amount of the working time will be dedicated to the combination of the results from LHC Collaborations: <https://twiki.cern.ch/twiki/bin/view/Honexcomb> under the STRONG-2020 project (<http://www.strong-2020.eu/>). The work will be done in collaboration with members of other LHC Collaboration and as such will be highly recognised.

Applicants should hold a recent PhD degree in experimental high-energy physics, significant expertise in data analysis, good knowledge of instrumentation matter, as well as high programming skills. The ability to take on responsibilities and carry on the research activities without the supervision is required.

Questions and applications should be sent to dr. hab. Iwona Grabowska-Bold, prof. at the AGH UST (Iwona.Grabowska@cern.ch). The latter should include a motivation letter and a detailed CV including a list of publications also with talks given at conferences and organisational achievements, as well as a copy of the document in support of a PhD degree. At least two recommendation letters should be arranged and sent separately to Iwona.Grabowska@cern.ch. One letter should be provided by the latest employer or PhD thesis supervisor for candidates that have just obtained the degree. All applications will be reviewed after the deadline of May 31st, 2021.