



The Department of Particle Physics (DPNC) at the University of Geneva invites applications for a

Ph.D. Student

to pursue doctoral studies associated with the ATLAS Experiment at the CERN Large Hadron Collider.

The student will conduct research on a project associated with the reconstruction of charged particles (tracks) and searches for new physics with the ATLAS Detector involving long-lived particles. The research will primarily be related to event reconstruction and data analysis techniques, as well as the interpretation of analysis results in the context of models of new physics.

The DPNC has made significant contributions across a wide range of ATLAS activities, including detector construction and operation, triggering, software, reconstruction, and data analysis. Details of the current department activities and interests can be found on the DPNC website (<https://www.unige.ch/dpnc/en/>). The selected candidate will join this diverse research group, and will focus on the reconstruction and data analysis domains as described above.

Doctoral candidates in the DPNC will normally complete their degree requirements within four years. The degree requirements include both course work as well as research studies, where the latter must lead to the preparation and defence of a thesis. The student will hold the post of Doctoral Assistant, which includes teaching duties. Non-francophone candidates are encouraged to achieve proficiency in French during the first year of studies.

Candidates should be strongly motivated to pursue doctoral studies in particle physics, and should have received (or be about to receive) the equivalent of a Master's Degree with a specialization in particle physics or a related discipline. Past research experience in a particle physics experiment would be beneficial, as would a background in reconstruction and/or data analysis techniques.

To apply, please send a CV, a single-page statement on personal motivation, and a grades record to giuseppe.iacobucci@unige.ch and steven.schramm@unige.ch. You should also send the names and contact information for three potential referees; there is no need for them to send letters at this time, rather they may be contacted later in the selection process.

Applications will be reviewed as they arrive until an exceptional candidate is identified; for full consideration, please make sure that all of your materials are **submitted by October 4, 2021**. The selected candidate is expected to start in early 2022.