



**Laboratório de Instrumentação e
Física Experimental de Partículas**



Post-doctoral research position for the ATLAS experiment at LIP-Lisbon

The ATLAS LIP-Lisbon group is searching for strong candidates to submit a joint application for a post-doctoral research position to work in the ATLAS experiment at the LHC.

The LIP Portuguese team participates in the ATLAS experiment since the collaboration was born, with important responsibilities in the TileCal hadronic calorimeter, the trigger and data acquisition system and the forward detectors. Currently, the LIP-Lisbon group contributions to ATLAS concern both Physics studies and detector performance, operation, consolidation and upgrade. In terms of Physics studies, the group focuses on the study of the Higgs boson properties in the associated production mode with a W or Z boson when the Higgs decays to b-quark pairs and in the associated production of the Higgs with top quark pairs. In the heavy ions collisions, the group participates in study of the quark gluon plasma with jets as probes. In what correspond to the Upgrades of the ATLAS detector, the group is contributing to the development of a High Voltage Distributor system for the TileCal calorimeter, improved jet trigger algorithms and forward physics triggers.

The fellowship is offered within the framework of the Portuguese Foundation of Science (FCT), which provides funds for a three-year grant renewable for another 3 years. It will be based at Lisbon with the possibility of frequent trips to CERN to participate in data taking duties or in meetings.

The successful candidate is expected to have a PhD and a strong background in Experimental High Energy Physics. He/she will contribute to the group's detector responsibilities and to the physics studies.

Candidates willing to apply should send their CV and up to three letters of reference to atlasinfo@lip.pt before the 30th of April 2015.