

Topic: Particle reconstruction Algorithms for the International Linear collider.

A post doctoral position is opened for two years at LPC Clermont (FR)
LPC Clermont belongs to IN2P3-CNRS and University Blaise Pascal.
The ILC (International Linear Collider) group is involved in a large program dedicated to the optimization of the detector and also in Very Front End electronics for SiW calorimeter in CALICE collaboration.
Activities of the post doc will consist in developing new particle reconstruction algorithms especially for calorimeter objects. The goal is to participate to the elaboration of a complete "particle flow" algorithm which is able to guide the optimisation of the detector in its whole. The performance of the software would be evaluated in multi-jets environment from Physics analysis, especially in the Higgs boson sector.
Analysis of the test beam data collected with the CALICE prototype is another part of the PhD activity.

Applicants should have experience with High energy physics analysis and software.
Candidates must have a Ph.D. degree (or equivalent) in high energy Physics.
Contract will begin September the 1rst.

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