



Two Post-doctoral Research Positions in Experimental Particle Physics – CMS experiment

The experimental high energy physics group of the Université catholique de Louvain (UCL) in Louvain-la-Neuve (Belgium) invites applications for two positions at the post-doctoral level to join its efforts in data analysis, running and future upgrade of the CMS experiment at the Large Hadron Collider (LHC).

UCL has contributed significantly to the design and construction of the CMS silicon strip tracker and has been deeply involved in its commissioning in view of the start-up of the experiment now expected in autumn 2009. The UCL group is currently active in CMS cosmic data analysis, software development and preparation for physics data analysis within the exotica, forward and top quark physics groups. UCL hosts one of the Tier-2 LHC GRID computing centers that allow CMS data to be processed and analysed. The activity of the group develops within the Center for Particle Physics and Phenomenology (CP3) of UCL (<http://cp3.phys.ucl.ac.be/>) in close collaboration with theoreticians. A strong MonteCarlo generator (MadGraph/MadEvent) team has resulted from this collaboration. The group is also involved in the NA62 experiment as well as in research and development programs related to possible extensions of the CMS experiment and to the Super-LHC.

One position is dedicated to the analysis of the first CMS physics data. The actual research subject will be preferably geared toward searches for physics beyond the Standard Model, but will be negotiated on the basis of the group priorities and candidate's preferences. The selected candidate is expected to be mainly based in Belgium, but extended stays at CERN can be envisaged. Additional information concerning this position can be obtained from Giacomo Bruno (Giacomo.Bruno@uclouvain.be; tel: +32 10 473215).

A second position is dedicated to the application of the CMS forward detectors for selection and analysis of exclusive production at the LHC. The selected candidate is also expected to get strongly involved into the UCL-led project of supplementing CMS with novel, very forward detectors, capable of running at high luminosity. The successful candidate will be mainly based at CERN. Additional information concerning this position can be obtained from Krzysztof Piotrkowski (Krzysztof.Piotrkowski@cern.ch; tel: +41227671539).

Applicants must have (or expect to receive soon) a Ph.D. in particle physics. The appointments will start in autumn 2009 or later and are initially intended for two years, with possibility of future extensions. These positions are funded by the Belgian network for research in fundamental interactions and are open to candidates of any nationality. Applications, including curriculum vitae, a list of publications and at least two letters of recommendation, should be submitted before October 1st 2009 at the following http url:

<http://cp3.phys.ucl.ac.be/Jobs/Details/CP3-09-Exp-PostDoc>

These positions will remain open until suitable candidates are found.