



Laboratoire LEPRINCE-RINGUET

École polytechnique - IN2P3/CNRS

Post-doc in CMS at the LLR

The CMS group of the Laboratoire Leprince-Ringuet (LLR) at the École polytechnique, is inviting applications for a 2-year postdoctoral position (with possible extension) scheduled to start in 2018.

The group is a founding member of the CMS Collaboration. It has designed and built the ECAL L1 trigger and it is responsible for its daily operation and monitoring. It has major involvement in particle reconstruction and identification with the e/γ and τ Physics Object Groups, contributed to the development of the Particle Flow event reconstruction. It strongly contributed to the discovery of the H boson and some of the most cited papers in Higgs physics as well as in Heavy Ion physics. The group is currently involved in vector boson scattering physics, H boson and the scalar potential in general (H \rightarrow 4 ℓ , ttH, HH \rightarrow bb $\tau\tau$), as well as in Heavy Ions physics (quarkonia, jets, electroweak probes). The group is also heavily involved in the high-granularity calorimetry project for HL-LHC high brightness prediction.

The successful candidate is expected to contribute to the performance and system tests for the CMS **High Granularity Calorimetry** project as well as to one or the other **legacy analysis** exploiting the available collision data from the LHC (**Higgs** or **di-Higgs**, **VV scattering**, **Heavy Ion physics...**). The balance is to be adjusted as a function of the highest benefit for the post-doc.

Applications, including a CV with a summary of professional experience and a brief statement of research interests (1 page max.) should be sent to yves.sirois@cern.ch or raphael@cern.ch until October 23rd 2018. The names of two referents would be greatly appreciated.

Yves Sirois Directeur de Recherche, CNRS-IN2P3 Responsable CMS au LLR

Raphaël Granier de Cassagnac Directeur de Recherche, CNRS-IN2P3 Char Sivoi

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