



Ph. D. position in CMS, at the Université Libre de Bruxelles – Brussels – Belgium

The *Service de physique des particules élémentaires* of the *Université Libre de Bruxelles* (ULB) is offering a position to an outstanding student with a university degree to start a PhD thesis within the CMS collaboration at the LHC.

The Service is part of the *Inter-University Institute for High Energies (ULB-VUB)*, which combines the experimental particle and astroparticle research groups from the francophone ULB and the Dutch-speaking VUB (Vrije Universiteit Brussel) and presently numbers more than 70 physicists, engineers and support staff. It is involved in frontier research in large international collaborations: [CMS](#) (at the LHC), [IceCube](#) (astroparticle physics at the South Pole), [HI](#) (DESY, Hamburg) and [OPERA](#) (CERN-Gran Sasso), and in R&D in data acquisition systems. It hosts a CMS Grid Tier-2 computing centre.

The candidate will be involved in precise measurements of Standard Model processes and the search for physics beyond the Standard Model (GUT, models with extra dimensions or supersymmetry) in the preparation of which the Brussels group in CMS has played a leading role in the last few years ([HEEP](#)). The Brussels group is also active in top physics and in the commissioning of the CMS tracker, which was partially built in Brussels.

The position, which implies frequent visits to CERN, does not involve teaching duties. PhD training is provided in an international context. The doctoral studies can take place in a context of co-supervision, leading to the award of a joint/double doctoral degree by the home institute and ULB. The thesis may be written in either French or English. The salary is competitive and includes all social security benefits (information is available on request to Prof. P. Marage – see below)

While this position is currently open, the start may be delayed to accommodate an exceptional candidate. Students in their last university year are encouraged to apply.

Applications, including a CV, a letter of motivation and the names of two referees, should be sent to Prof. Pierre Marage:

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Email : pmarage@ulb.ac.be

Evaluation of the applications will be conducted as they are received.