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Particle Physics at LPTHE

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Domaines : hep-ph

Titre : *The Higgs boson as a probe at hadron colliders*

Orateur : **Andreas Papaefstathiou (Amsterdam U. & NIKHEF)**

Résumé : *One of the main goals of our field is to understand electro-weak symmetry breaking (EWSB), in which the central protagonist is the Higgs boson. Both at the Large Hadron Collider and future colliders, the Higgs boson will be studied extensively. However, it can also be used as a probe for new phenomena. On the other hand, if new particles are discovered, the Higgs boson could be used to uncover their potential links to EWSB. This programme involves the study of either multiple Higgs bosons in a single event or associated production of Higgs bosons with other (new or SM) particles. In this talk I will be discussing the kind of information we could extract from such processes.*
