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Particle Physics at LPTHE

Jeudi 27 Juillet 2017, 14 :30
LPTHE, Library
Domaines : hep-ph

Titre : *SUSY, Dark Matter and five Higgs Bosons at the LHC*

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Résumé : *The LHC sees a SM-like Higgs boson at 125 GeV and puts bounds on extended Higgs sectors and other BSM physics. We discuss the status of SUSY taking all current bounds into account. We show the implications for Dark Matter searches at the LHC and Direct Detection experiments. In particular we discuss that a 125 GeV SM-like Higgs boson can be realized easily in SUSY, taking all the relevant data into account. One particularly interesting interpretation has the observed Higgs boson as the second lightest one, and the lightest Higgs boson has escaped detection so far.*