



Contribution ID: 106

Type: parallel talk

The CMSSM and the NUHM in Light of new LHC Limits

Monday 7 May 2012 18:00 (15 minutes)

Abstract:

We present an updated global analysis of the CMSSM and the first global analysis of the Non-Universal Higgs Model (NUHM) taking into account new limits on supersymmetry from 5 fb^{-1} datasets at the LHC. In particular in the case of the razor limit by the CMS Collaboration we simulate detector efficiency for the experimental analysis and derive an approximate likelihood function. We further discuss the impact of a possible Higgs boson with mass near 125 GeV, as suggested by recent data, on the global fits in both models. We identify the 68% and 95% credible posterior regions of the CMSSM and NUHM parameters, and also find the best-fit point.

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Session Classification: SUSY II

Track Classification: Supersymmetry