

Planck 2013 From the Planck Scale to the Electroweak Scale

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BSM models face Higgs coupling data

Thursday, 23 May 2013 14:30 (25 minutes)

We discuss how to probe Beyond Standard Model theories with Higgs coupling data. I will discuss, first, how much Higgs couplings deviate from their Standard Model values in different theories if no other states are accessible at the LHC. We will argue that this is the experimental precision required in the measurement of Higgs couplings. Finally, I will discuss how present and future Higgs coupling data can probe natural SUSY models. Refs: 1) Gupta, Rzehak and Wells (arXiv:1206.3560) 2) Gupta, Montull and Riva (arXiv:1212.5240)

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Session Classification: Parallel Session on Higgs Physics