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SUSY searches at CMS

Supersymmetry (SUSY) is the most popular model for new physics as it is able to address some of the fundamental drawbacks of the standard model (SM) of particle physics. Among them are the 'hierarchy problem' that deals with a huge gap in the strength of gravitational and electroweak interactions, and absence of suitable candidate for dark matter. For each SM particle, SUSY introduces a partner that differs in spin by half. Since its inception the CMS experiment at the LHC is actively pursuing for these supersymmetric partners. The talk reviews recent results on CMS searches for SUSY signature, based on the pp collision data recorded at 13 TeV, the highest energy ever achieved in the laboratory.

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