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Phenomenological MSSM interpretation of CMS results (15' + 5')

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Using a global Bayesian analysis, it is shown how the results from searches for supersymmetry performed by CMS constrain the Minimal Supersymmetric Standard Model (MSSM). The study is performed within the framework of the phenomenological MSSM (pMSSM), a 19-parameter realization of the R-parity conserving weakscale MSSM, that captures most of the latter's phenomenological features and which, therefore, permits robust conclusions to be drawn about the MSSM.

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