

PASCOS 2014

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Making the most of SMS results

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Content :

Simplified model spectra (SMS) results are a generic way of interpreting the Beyond the Standard Model (BSM) searches. SModelS is a tool developed to exploit the power of SMS results to test BSM parameter space.

I present an application of SModelS to various SUSY scenarios. I discuss how the SMS limits constrain various particle masses and which regions of parameter space remain unchallenged by the current SMS interpretations of the LHC results. I take specific examples of MSSM parameter space with neutralino LSP as well as extensions of MSSM scenarios e.g. NMSSM and a model containing sneutrino LSP dark matter candidate.

Primary authors : KULKARNI, Suchita (LPSC)

Co-authors :

Presenter : KULKARNI, Suchita (LPSC)

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