

Abstract Submitted
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Interpretation of Searches for Supersymmetry with Simplified Models CHRISTOPHER SILKWORTH, University of Illinois of Chicago, CMS COLLABORATION — The results of CMS searches for Supersymmetry are interpreted in the context of Simplified Models. These results are based on data samples with a corresponding integrated luminosity of up to $4.98 fb^{-1}$ produced in proton-proton collisions at a center-of-mass energy of 7 TeV collected by the CMS experiment at the LHC. This analysis provides a compilation of acceptance predictions and cross section upper limits for a range of Simplified Models and mass parameters. The results provide information that can be used to constrain other theoretical models. They also provide a comparison of different CMS search strategies.

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