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Electroweak-inos constraints in the pMSSM with SModelS

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After LHC Run 2, a large variety of searches is able to constrain supersymmetric models. ATLAS recently presented a summary of constraints from their Run 2 analysis sensitive to electroweak-inos on a scan of the phenomenological minimal supersymmetric standard model (pMSSM). Using the SModelS reinterpretation tool, we present our results for this pMSSM scan and compare our constraints with those of ATLAS. Going further, we make use of the analysis combination feature of SModelS to explore the resulting exclusion on the pMSSM scan from CMS and ATLAS analysis combinations. In particular, we show that the combinations still allows for low mass electroweak-inos.

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