

The Constrained E6SSM

Friday 17 July 2009 14:30 (20 minutes)

I will discuss the predictions of a constrained version of the exceptional supersymmetric standard model (cE6SSM), with a universal high energy soft scalar mass, soft trilinear coupling and soft gaugino mass. The spectrum includes a light gluino, a light wino-like neutralino and chargino pair and a light bino-like neutralino, with other sparticle masses except the lighter stop being much heavier. I will also discuss scenarios with an extra light exotic colour triplet of fermions and scalars and a TeV scale Z' , which lead to early exotic physics signals at the LHC.

Primary author: Dr MILLER, David (University of Glasgow)

Presenter: Dr MILLER, David (University of Glasgow)

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