

Neutrino Masses from a Pseudo-Dirac Bino and Its LHC Implications

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We know neutrinos have mass, but we don't know how they get their masses. Many models augment the Standard Model with right-handed neutrinos, either Dirac or Majorana, to generate the neutrino masses. I will show that in R-symmetric supersymmetric models, the bino and its Dirac partner the singlino can play the role of right-handed neutrinos. In this mechanism the neutrino masses are generated in a very simple fashion. I will discuss interesting signatures of this model at high energy colliders.

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