

Spontaneous R-parity Breaking at TeV scale and at the LHC

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The fate of R-parity is one of the central issues in the minimal supersymmetric standard model. Gauged $B - L$ symmetry provides a natural framework for addressing this question. I will study the theory and phenomenology in a class of models where gauged R-parity is spontaneously broken at TeV, including the predictions of neutrino masses and the signature for such theories to be detected at the LHC.

Author: Dr ZHANG, Yue (Abdus Salam ICTP)

Presenter: Dr ZHANG, Yue (Abdus Salam ICTP)

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