

PAUL SCHERRER INSTITUT



Particle Theory Seminar

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“Low-energy observables in a SUSY model with
spontaneously broken R-parity”

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Abstract:

In supersymmetric models neutrino physics can be explained with R-parity violation. We studied a NMSSM-like model with spontaneously broken R-parity induced by the introduction of two additional singlet fields which allows one to engage neutrino physics at tree level. To test this model in experiment we looked for dependences of the inclusive B-meson decay $B \rightarrow X_s l^+ l^-$ as well as lepton flavour violating decays. Once the parameters fulfil current neutrino physics, especially some processes in the lepton sector give further constraints.