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Supersymmetric Left-Right models and low energy phenomenology

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The seesaw mechanism is the most popular explanation for the smallness of neutrino masses. However, its high scale makes impossible to test it directly and only indirect signals at low energies are reachable, lepton flavor violation in SUSY models being the best example. In this talk I will discuss lepton flavor violating signatures in the context of a SUSY left-right symmetric model that naturally incorporates the seesaw mechanism. In addition to the link between LFV and neutrino mixing angles, this non-minimal embedding of the seesaw leads to observable LFV effects in the right sleptons sector, contrary to minimal seesaw models where these are found to be totally negligible. Moreover, the deformation of the low energy spectrum leads to some other interesting differences. In particular, dark matter relic density might clearly depart from the standard picture.

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