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LLPs from LSPs and the Muon g-2

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The minimal supersymmetric extension of the standard model including three families of right-handed neutrino superfields can simultaneously solve the ν-problem by being able to reproduce the correct neutrino masses and mixing angles, and explain the higgs data. Due to the smallness of the neutrino Yukawa coupling in the model, the magnitude of the R-parity violating interactions is also very small, leading to the lightest supersymmetric particles (LSPs) that are long lived, and that can be probed at the current and upcoming accelerator experiments. I discuss some of the LSP scenarios, and show how the model can explain the muon g-2 data. Also, I discuss possible candidates for dark matter.

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Classification de Session: Parallel session 3