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The Radiative SUSY Seesaw Mechanism

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In this talk we first review the radiative seesaw scenario in the context of inverse seesaw models, in which small lepton number violating parameters generate radiatively at the one-loop order the observed small light neutrino masses. Then, we show how the supersymmetric version of this radiative mechanism offers cancellations among the one-loop contributions to neutrino masses thanks to a SUSY non-renormalization theorem, thereby relaxing dramatically the size of the lepton number violating parameters in such models. Finally, we discuss the phenomenological and cosmological implications of this radiative SUSY seesaw scenario.

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