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## **Leptogenesis and dark matter in a radiative neutrino mass model**

It is known that the standard model has serious problems from experimental and observational standpoints: neutrino mass, existence of dark matter and baryon asymmetry of the universe.

The radiative neutrino mass model is known as a candidate which could explain tiny neutrino masses and existence of dark matter simultaneously. In addition, in this model, the sufficient baryon number asymmetry could be generated through resonant leptogenesis consistently with all the data of neutrino oscillation experiments. We estimate the baryon number asymmetry and discuss the prospects in the dark matter direct search experiments.

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