

A new model for radiative Dirac neutrino masses with dark matter and electroweak baryogenesis

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Until now, various models to explain tiny neutrino mass have been proposed.

Among them, it is known that a model proposed by M. Aoki, S. Kanemura and O. Seto can resolve not only neutrino oscillation but also dark matter and baryon asymmetry of the Universe. Although this model generates Majorana neutrino mass, we found a Dirac neutrino mass model, which can resolve these 3 phenomena, by classification of neutrino mass model in our previous study.

In this talk, we show that there is a benchmark scenario which can simultaneously explain these 3 phenomena namely, neutrino oscillation, dark matter and baryon asymmetry of the Universe.

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