

Resonant leptogenesis at TeV-scale and neutrinoless double beta decay

Wednesday, 5 December 2018 15:00 (30 minutes)

We investigate a resonant leptogenesis by quasi-degenerate right-handed neutrinos which masses are TeV scale. At TeV scale, the yield of the baryon asymmetry depends on the phases of PMNS matrix thanks to the flavor effect. In this talk, we show how the yield of the baryon asymmetry correlates with the Dirac-type CP phase and the Majorana-type CP phase. In addition, we discuss the impact on the neutrinoless double beta decay from the observed baryon asymmetry. We present the predicted range of the effective neutrino mass in neutrinoless double beta decay in order to account for the baryon asymmetry.

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Session Classification: Poster Session & Tea Break