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Fermion number violating effects in low scale leptogenesis

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The baryon asymmetry and dark matter in the Universe can be explained just by introducing right-handed neutrinos with masses well below the Fermi scale. For the masses of the order of GeV scale baryogenesis via neutrino oscillations works as a mechanism to generate the baryon asymmetry. We derived kinetic equations of the baryogenesis accounting for fermion number violating effects missed so far, and discussed the impact. Further we identified one of the domains of right-handed neutrino masses that can potentially lead to large lepton asymmetry generation required from the resonant production of sterile neutrino dark matter.

Presentation type

Parallel talk

Primary authors: EIJIMA, Shintaro (EPFL); Prof. SHAPOSHNIKOV, Mikhail (EPFL)

Presenter: EIJIMA, Shintaro (EPFL)

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