

Progress in baryogenesis via neutrino oscillations

Thursday 30 June 2022 11:00 (30 minutes)

Low energy baryogenesis via sterile neutrino oscillations has received recently considerable attention, since it can be testable in future experiments such as SHIP and FCC. Focusing on the minimal model with just two heavy sterile neutrinos, we have studied bounds on the mixing among them and the active ones from successful baryogenesis, both through a numerical scan and by deriving analytic approximations. We also draw some conclusions about the flavour structure of the neutrino Yukawa couplings, depending on the mass degeneracy of the heavy states.

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Session Classification: Morning Session