

Leptogenesis in an S_3 extension of the Standard Model

Thursday, 7 June 2012 18:00 (0:20)

Abstract content

The S_3 model is an extension of the SM in which has been imposed a S_3 flavor symmetry. In order to give masses to the particles and keep the flavour symmetry unbroken two additional Higgs doublets are added. The model has three right handed neutrinos which help implement a seesaw mechanism to give light masses to the left handed ones. On this model we calculate the leptonic as well as the baryonic asymmetry generated from leptogenesis. The renormalization group has been taking into account leading to predictions on the right handed neutrino masses as well as the phases of the masses to the best leptogenesis asymmetry value.

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Session Classification : Leptogenesis

Track Classification : Particles