## Leptogenesis in an S3 extension of the Standard Model

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## Abstract content

The S3 model is an extension of the SM in which has been imposed a S3 flavor symmetry. In order to give masses to the particles and keep the flavour symmetry unbroken two additional Higgs doubletes 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.

Primary author(s) :Mr. ALVAREZ CRUZ, Arturo (Instituto de Fisica)Presenter(s) :Mr. ALVAREZ CRUZ, Arturo (Instituto de Fisica)Session Classification :Leptogenesis

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