



Contribution ID: 69

Type: Oral

Neutrino Masses, Leptogenesis and Dark Matter from a Scotogenic Model with two Higgs doublets

Thursday 14 July 2022 14:12 (12 minutes)

For a scotogenic model (i.e. with radiatively generated neutrino masses through dark matter) with two additional Higgs doublets and a single Majorana fermion, we explore the possibility of explaining neutrino masses, Leptogenesis and dark matter all at once. To this end, we apply the Leptogenesis mechanism described in <https://arxiv.org/abs/1201.5126> to the model proposed in <https://arxiv.org/abs/1208.3162>. This offers an alternative to the usual seesaw and Leptogenesis mechanisms relying on the mixing of at least two Majorana fermions and a Higgs doublet.

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Session Classification: Student Talks