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TALK: The Scotos Side of Neutrinos

Thursday, July 11, 2024 10:00 AM (45 minutes)

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We carry out a systematic investigation for minimal Scotogenic models based on a dark gauge symmetry, in which the neutrino masses are induced at the one-loop level and include a chiral dark matter (DM) candidate. Assuming this gauge symmetry is broken by only one Higgs singlet scalar that also generates masses to all dark fermions, we analyze the stability of the DM candidate which is ensured by a residual symmetry of gauge symmetry. There can be different DM scenarios explored in this framework and we investigate the associated scalar and fermionic DM phenomenology of one of the minimal models.

Presenter: CHAKDAR, Shreyashi (College of the Holy Cross)