

# International Conference on High Energy Particle & Astroparticle Physics (ICHEPAP2023)



Contribution ID: 50

Type: **Contributory Talk**

## **[Absent] Connecting dark matter and lepton flavour violation in a flavor symmetric Scot-seesaw model.**

*Thursday, 14 December 2023 18:30 (20 minutes)*

**Abstract:** We have consider a model by combining type I seesaw and scotogenic part. We have fitted neutrino mass and mixing from the neutrino oscillation data. As the sctogenic model has dark  $Z_2$  symmetry, we have studied the fermionic dark matter phenomenology in detail. As neutrino mass generation allows lepton flavor to be violated, lepton flavor violating decays put a strong constraint on our model parameters. As a collider phenomenology, we have done an analysis on the signal streghth of higgs to  $h \rightarrow \gamma \gamma$  decay which also put some constrain on the mass of the charged Higgs scalar.

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**Session Classification:** Parallel Session 4: Collider