

## Scotogenic Majorana neutrino masses in an orbifold theory of flavor

*Thursday 30 June 2022 17:00 (15 minutes)*

An extra-dimensional extension of the standard model is presented. It displays a flavor  $A_4$  symmetry among the three generations of fermions at the high energy regime. The model offers a symmetrical origin to quark and lepton mixings in a unified framework. The neutrino masses in the model emerge at one loop in a scotogenic fashion. The minimalist set up of the model is highly predictive and includes a dark sector whose lightest particle can be identified as a dark matter candidate.

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**Session Classification:** Parallel Session I.2