THE INSTITUTE
FOR UNDERGROUND SCIENCE
AT SURF

Contribution ID: **200**   Type: **not specified**

TALK: Embedding the Universal See-Saw Mechanism in Pati-Salam Model

Wednesday, July 17, 2024 10:00 AM (45 minutes)

Authors: Kaladi S. Babu, Sumit Biswas

Here we explore the integration of universal see-saw mechanism within the parity-symmetric Pati-Salam framework to address fermion mass generation. Incorporating vector-like fermions and a simple Higgs sector helps realize the hierarchical mass for all generations in this unified quark-lepton model. The neutrino sector seems pretty intriguing with the lightest neutrino acquiring mass through one-loop radiative corrections. With softly broken parity, we also see the possibility of addressing the strong CP problem in this setup.

Presenter: BISWAS, Sumit (Oklahoma State University)