## Phenomenology 2022 Symposium: From Virtual to Real



Contribution ID: 178

Type: not specified

## Resolving discrepancies in anomalous magnetic moment in the Zee model

Monday 9 May 2022 17:30 (15 minutes)

The Zee model comprises a second Higgs doublet and a charged singlet at electroweak scale and generates Majorana neutrino masses at the one-loop level. The neutral component of the  $SU(2)_L$  doublet contributes to the AMM of electron and muon via one- and two-loop corrections. In this work, we explore parameter space in the Zee Model to resolve the long-standing tension of the electron and muon anomalous magnetic moment (AMM) and propose two minimal flavor structures that can explain these anomalies while fitting the neutrino oscillation data and being consistent with experimental constraints.

**Authors:** THAPA, Anil (University of Virginia); BARMAN, Rahool Kumar (Oklahoma State University); DCRUZ, Ritu (Oklahoma State University)

Presenter: DCRUZ, Ritu (Oklahoma State University)

Session Classification: BSM II