Contribution ID: **191** Type: **Poster**

Lepton flavor violation in a left-right symmetric model with an Inverse seesaw

In this work, we investigate a **doublet left-right symmetric model** in which neutrino masses arise through the **Inverse Seesaw mechanism**. The framework is based on the gauge group SU(2)$_L \otimes SU(2)_R \otimes U(1)_{B-L}. Unlike the conventional triplet left-right symmetric model, where scalar triplets are introduced, ou$ together with a scalar bidoublet Φ. The right-handed doublet χ_R drives the first stage of symmetry breaking, SU(2)$_L \otimes SU(2)_R \otimes U(1)_{B-L} \rightarrow SU(2)_L \otimes U(1)_Y$, while the bidoublet Φ generates fermion mass matrices after spontaneous symmetry breaking. Within this setup, we analyze the phenomenological consequences for the **muon anomalous magnetic moment ($g-2$) **and for** lepton flavor violating Higgs and radiative decays**, identifying distinctive signatures that can probe the viability of the model.

Academic position of the presenting author

Postdoctoral Researcher

Primary authors: ZELENY MORA, Moises (UNAM); Dr MARTINEZ MARTINEZ, Roberto Enrique (universidad nacional de colombia); Prof. GAITAN LOZANO, Ricardo (FESC-UNAM); Dr MONDRAGÓN, Myriam

Presenter: ZELENY MORA, Moises (UNAM)

Session Classification: Posters & Empanadas

Track Classification: Beyond the Standard Model