

Phenomenology in a Zee-Babu type model with local $U(1)_{L_\mu-L_\tau}$ symmetry

Friday 6 July 2018 16:30 (15 minutes)

We discuss extension of the Zee-Babu model introducing local $U(1)_{L_\mu-L_\tau}$ symmetry with several singly-charged bosons. We find a predictive neutrino mass texture in a simple hypothesis that mixings among singly-charged bosons are negligible. Also lepton flavor violations are less constrained compared with the original model in such a scenario. Then we explore phenomenology of the model focusing on a doubly-charged boson physics at collider experiments such as the LHC and the ILC. This presentation is based on arXiv:1803.04795

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Session Classification: Higgs Physics

Track Classification: Beyond the Standard Model