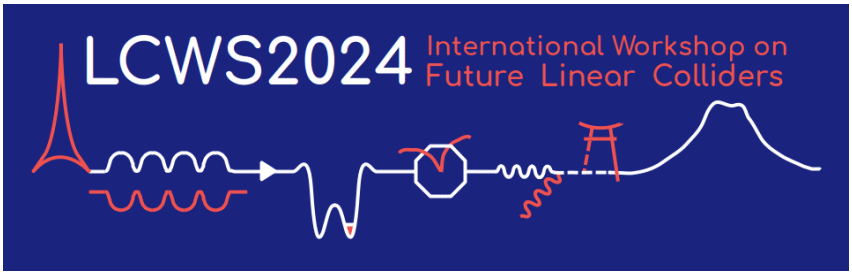

Contribution ID: **159** Type: **Oral presentation (in person)**

Third family quark mass hierarchy and FCNC in the universal seesaw model

Tuesday, 9 July 2024 15:00 (20 minutes)

We study the quark sector of the universal seesaw model with $SU(2)_L \times SU(2)_R \times U(1)_{Y'}$ gauge symmetry in the massless limit of the two lightest quark families. This model aims to explain the mass hierarchy of the third family quark by introducing a vector-like quark partner for each quark. In addition to the Standard Model Higgs doublet, we also introduce one right-handed Higgs doublet. In this presentation, we show the Z, Z', h, H FCNC for the third family quark (t, b) and the heavy partner (t', b').

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Track Classification: Physics and Detector: Top quark, QCD, Flavour, Precision Modelling