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Phenomenologies of exotic particles in the lepton sector

We consider all new interaction terms in the lepton sector that are renormalisable, SM gauge invariant but with only one exotic particle appearing per term. Following this setup, we have investigated those new couplings which have been rarely studied. Using the available low-energy experimental data, constraints can be placed on the interaction strength of these new processes via their contributions to the FCNC effects.

Primary author: LAW, Sandy (Chung Yuan Christian University)

Co-author: CHUA, Chun-Khiang (Chung Yuan Christian University)

Presenter: LAW, Sandy (Chung Yuan Christian University)

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