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Vector like dark matter, neutrino mass and flavor anomalies in leptoquark model

We make a comprehensive study of vector-like fermionic dark matter and flavor anomalies in a simple extension of standard model. The model is added with doublet vector-like fermions, of quark and lepton type. An additional lepton type singlet fermion is included, whose admixture with vector-like lepton doublet is examined in relic density and direct detection perspective. Furthermore, two leptoquarks, one scalar-type $(\bar{3}, 1, 1/3)$ and a vector-type $(\bar{3}, 1, 2/3)$ are introduced to study flavor anomalies. Neutrino mass is generated at one-loop level with the leptoquarks running in the loop.

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