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Fermion masses with Q_4 flavour symmetry

Abstract content

A renormalizable fermion mass model based in the Q_4 symmetry is presented. This include both quark and lepton sector and reproduce allowed experimental values for masses and mixing angles. In order to get this result is required to introduce four $SU(2)$ doublet scalar fields transforming non trivially under the flavor symmetry, and as right-handed neutrinos are not present in the model, two additional $SU(2)$ singlet fields, charged under both hypercharge and lepton number, are introduced to generate neutrino masses radiatively.

Summary

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