

On the SM quark/lepton masses in an SU(8) theory

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We describe the SM quark/lepton masses in an SU(8) theory, where three-generational SM fermions are non-trivially embedded. A set of $d=5$ operators that break the emergent global symmetries in the chiral fermion sector due to the Planck scale effects are sufficient to generate the light SM quark/lepton masses as well as the CKM mixing pattern, with one single SM Higgs doublet in the spectrum.

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