

Universal mass texture and quark-lepton complementarity

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Abstract content

Summary

Recent measurements of the neutrino and quark mixing angles satisfy the empirical relations called quark lepton complementarity. This empirical data suggests the existence of a correlation between the mixing matrices of neutrinos and quarks. In this work, we examine the possibility that this correlation between the mixing angles of quarks and leptons originates in the similar hierarchy of quark and charged lepton masses and the see-saw mechanism type-I that gives mass to the Majorana neutrinos. We assume that the similar mass hierarchies of charged lepton masses and quark masses allows one to represent all the mass matrices of the Dirac fermions in terms of a four zeros Fritzsch texture.

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