

Can a matrix with four zeros texture reproduce the mixings in quarks and leptons?

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Abstract content

We assume that the similarity of charged leptons and quarks mass hierarchies allow us to represent all mass matrices of Dirac fermions in terms of a universal form with four texture zeros. And using the seesaw mechanism type-I, we discuss the conditions that the components of the Dirac and right-handed Majorana neutrino mass matrices must satisfy for the left-handed Majorana neutrino mass matrix to have a four zeros texture form. In this unified treatment we can reproduce the quark and lepton mixing matrices and CP violating phases.

Summary

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