



Contribution ID : 174

Type : **not specified**

Unified treatment of quarks and leptons

Wednesday, 8 October 2008 19:00 (2:00)

Abstract content

Summary

Recent measurements of the neutrino mixing angles and the quark mixing angles satisfy the empirical relations the so called quark lepton complementarity. These empirical data suggests the existence of a correlation between the mixing matrices of neutrinos and quarks. Here, 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 seesaw mechanism 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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Session Classification : Posters