XIII Mexican School of Particles and Fields



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Tri-bimaximal neutrino mixing and CKM matrix from finite group family symmetry in SU(5) GUT

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Abstract content

We propose a model based on $SU(5) \times {}^{(d)}T$ which successfully gives rise to near tri-bimaximal leptonic mixing as well as realistic CKM matrix elements for the quarks. The Georgi-Jarlskog relations for three generations are also obtained. There are only nine operators allowed in the Yukawa sector up to at least mass dimension seven due to an additional $Z_{12} \times Z^{12}$ which also forbids, uptosomehighorders, operators that lead to protondecay. The resulting model has atotal of $\sum \{c_3 \setminus c_3 \setminus c_4\}$, the model gives rise to assume rule, $\tan \{2\} \setminus c_4 \setminus c_4 \setminus c_4 \setminus c_4 \setminus c_4 \setminus c_4 \in c_4 \in$

Summary

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