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Non-diagonal charged lepton mass matrix, the TBM and non-zero θ_{13}.

After the experimental confirmation of the non-zero value of θ_{13}, the most useful ansatz for the lepton mixing matrix, the tribimaximal (TBM) mixing matrix, requires deviations coming possibly from the charged lepton sector to take into account the non-zero value of this mixing angle.
Then, assuming that the neutrino mixing matrix is diagonalized by the TBM, i.e. $U_\nu = U_{TBM}$, we looked for the charged lepton mass matrix textures which render a $U_{PMNS} = U_l^\dagger U_\nu$ lepton mixing matrix consistent with data, being U_l the charged lepton mixing matrix.
We were interested in the textures with the maximum number of zeros, so, we explored the cases of real matrices with three and four zeros and found which of them provide solutions in agreement with data. We present the successful Yukawa textures including the relative sizes of their non-zero entries. Moreover, we found some interesting relations among the entries of these textures in terms of the charged lepton masses.

Summary

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