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CP violating phase from charged-lepton mixing

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A model independent analysis of the leptonic Dirac CP-violating phase (δ) is presented. The analysis uses the experimentally determined values of the mixing angles in the lepton mixing matrix in order to explore the allowed values for δ and possible general forms for the charged lepton mixing matrix. This is done under two general assumptions: 1) that the mixing matrix in the neutrino sector is the so-called tribimaximal matrix and hence the non zero value for θ_{13} arises due to the mixing matrix in the charged lepton sector and 2) the charged lepton mixing matrix is parametrized in terms of three angles and one phase. It is found that any value of δ is still consistent with the data and that, considering the assumptions above, regardless of the value for δ , the 1-3 mixing angle in the charged lepton sector is small but non zero and the 2-3 mixing angle can take values in only two possible small ranges around 0 and $\pi/2$ respectively.

Based on work done with J. Alberto Acosta, Alfredo Aranda, Julio Virrueta

Orateur: ACOSTA LOPEZ, Jesus Alberto

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