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CP phases from non-abelian discrete symmetries

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I will discuss possibilities to predict CP phases in the lepton sector with the help of non-abelian discrete flavour symmetries (and CP symmetries). I will show that the breaking of a non-abelian discrete flavour group to residual symmetries in the charged lepton and neutrino sectors not only allows for predictions of the mixing angles, but also of the Dirac phase. Furthermore, I will present an approach in which a non-abelian discrete flavour group and a CP symmetry are broken in such a way that the residual symmetry in the neutrino sector is Z2 x CP. In the latter case, all three CP phases, the Dirac and the two Majorana phases, are given in terms of a single parameter. Also lepton mixing angles turn out to be a function of only this parameter. Thus the latter approach is very predictive.

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