

# Theory for Neutrino Mixing

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Tremendous progresses on neutrino mixing have been made both experimentally and theoretically. Recent data show that the mixing angles in the PMNS are not always small as their quark mixing counter part. In the standard parametrization for three neutrino mixing commonly used, the mixing angle  $\theta_{23}$  is close to  $\pi/4$ ,  $\theta_{12}$  is also large,  $\theta_{13}$  is relatively small but away from zero. There are also evidences show that the CP violating Dirac phase  $\delta$  is close to  $-\pi/2$  (or  $3\pi/2$ ). In this after some brief review on theoretical ideas about neutrino mixing, I discuss how to understand the mixing pattern and to construct theoretical models to accommodate current data.

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