

Test of tri-direct CP symmetry models by accelerator neutrino oscillations

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Origin of neutrino masses are realized with a series of flavour symmetry models while the tri-direct CP-symmetry stands out among them. Here we briefly review the peculiar features of tri-direct CP-symmetry models, focusing on neutrino mixing parameters and their predicted correlations. The number of parameters to describe neutrino mixings is reduced to four due to the new symmetry. It is straightforward to probe these models with current and future neutrino oscillation experiments based on accelerator neutrino beams, and has a potential to discriminate different benchmark scenarios. We find that the degeneracy problems in constraining model parameters get worse, but a combination of different experiments will nail down fundamental neutrino mixing parameters predicted by the underlying theory.

Working Group

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Author: Prof. TANG, Jian (Sun Yat-Sen University)

Presenter: Prof. TANG, Jian (Sun Yat-Sen University)

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