

Nonstandard neutrino Interactions as a solution to the NOvA and T2K tension

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The latest data of the two long-baseline accelerator experiments NOvA and T2K, interpreted in the standard 3-flavor scenario, display a tension. A mismatch in the determination of the standard CP-phase δ_{CP} extracted by the two experiments is evident in the normal neutrino mass ordering. In this talk, we show that such a discrepancy can be resolved if one hypothesizes the existence of complex neutral-current non-standard interactions (NSI) of the flavor changing type.

Reference to paper (DOI or arXiv)

<https://doi.org/10.1103/PhysRevLett.126.051802>

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