

The Role of Cross Sections in the Oscillation Analysis: The T2K Experience

The T2K experiment measures long baseline neutrino oscillations with neutrinos in the 0.1-1.5 GeV energy range. Thanks to excellent beam performance T2K is rapidly gathering statistics, increasing the relative importance of the parameterisation of systematics. Neutrino-nucleus interactions are large contributors to the error budget at T2K, affecting crucial components such as neutrino energy estimation and event selection. This talk gives an overview of T2K's treatment of interaction systematics, the constraints that are placed upon them, and their impact on oscillation analyses.

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Session Classification: Posters & welcome reception