PhD Summer School on Neutrinos

Here, There & Everywhere

July 11-15, 2022
Niels Bohr Institute, Copenhagen

Contribution ID: **71** Type: **Oral**

Reparameterisations of the neutrino mixing matrix in long-baseline analysis

Tuesday, 12 July 2022 14:48 (12 minutes)

Tokai to Kamioka (T2K) is a long-baseline neutrino experiment based in Japan, which has provided some of the strongest constraints for the θ_{23} and δ_{CP} parameters of the neutrino mixing matrix. I will discuss the role of remparameterisations of the phase space of the Pontecorvo-Maki-Nakagawa-Sakata matrix in testing the robustness of T2K's Bayesian analysis framework MaCh3, and the motivation behind T2K's plans for reporting measurements of parameterisation invariants such as J_{CP} and $|U_{\alpha i}|$.

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Session Classification: Student Talks