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Global neutrino oscillation analysis: status of unknown parameters, and future systematic challenges for ORCA and PINGU

Tuesday, 15 September 2015 09:00 (30 minutes)

We present the status of three-neutrino oscillations from a global data analysis, including a partial 2015 update, with emphasis on the unknown parameters: CP phase, θ_{23} octant, mass hierarchy. We also discuss the unprecedented challenges set by (non)parametric systematic uncertainties in hierarchy-sensitive experiments characterized by very high statistics, such as ORCA and PINGU.

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