

3rd Open Meeting for the Hyper-Kamiokande Project

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HK sensitivity with T2K systematic treatment

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The sensitivity of CP measurement using J-PARC beam shown in Hyper-K LOI is calculated with fixed θ_{23} and Δm^2_{32} , and the treatment of systematic uncertainty is very simple. To validate the LOI sensitivity, I will show the sensitivity obtained by fitting 4 oscillation parameters (Δm^2_{CP} , θ_{13} , θ_{23} , and Δm^2_{32}) with more realistic treatment of the systematic uncertainty based on the actual estimation for T2K. In addition, the effect of the constrained on θ_{13} from reactor experiments will be shown.

Primary author: Dr IKEDA, Motoyasu (Kyoto University)

Co-author: Dr MEGAN, Friend (KEK)

Presenter: Dr IKEDA, Motoyasu (Kyoto University)

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