

Theta 13 after Daya Bay

lundi 14 mai 2012 10:40 (25 minutes)

The lepton mixing angle theta 13, the only unknown angle in the standard three-flavor neutrino mixing scheme, is finally measured by recent reactor and accelerator experiments. We perform a combined analysis of the data coming from T2K, MINOS , Double Chooz, and Daya Bay, extracting a 6.2 sigma significance for nonzero theta 13. We also discuss near future expectations on the precision of the theta 13 determination.

Auteurs principaux: Prof. NUNOKAWA, Hiroshi (Pontifícia Universidade Católica do Rio de Janeiro); Prof. MINAKATA, Hisakazu (Tokyo Metropolitan University); MACHADO, Pedro (Universidade de São Paulo and CEA-Saclay); Prof. ZUKANOVICH FUNCHAL, Renata (Universidade de São Paulo)

Orateur: MACHADO, Pedro (Universidade de São Paulo and CEA-Saclay)

Classification de Session: Flavors