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Neutrino Oscillation Results from MINOS

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Abstract content

The Main Injector Neutrino Oscillation Search (MINOS) long baseline experiment has been actively taking beam data since 2005, having already accumulated 2.6E20 protons-on-target. MINOS uses the most powerful neutrino beam currently in operation measured in two locations: at Fermilab, close to beam production, and 735 km downstream, in Northern Minnesota. By observing the oscillatory structure in the neutrino energy spectrum, MINOS can make the most precise measurement of the mass-square difference neutrino mixing parameter in the atmospheric sector. In this talk, The latest MINOS neutrino oscillation results are presented, along with a discussion of the MINOS sensitivity to other neutrino oscillation phenomena, such as the nu_mu into nu_e subdominant oscillation mode and oscillations into sterile neutrinos.

If this papers is presented for a collaboration, please specify the collaboration

MINOS

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 1303-1306

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