Contribution ID : **627** Type : **Oral**

Measurement of the Atmospheric Muon Charge Ratio using the MINOS Near Detector

Thursday, 5 July 2007 08:54 (0:12)

Abstract content

The 980 ton MINOS Near Detector is located at the end of the NuMI beam facility at Fermilab in a 100 m deep underground cavern. It was designed to study neutrino oscillations with the Fermilab NuMI beam in conjunction with the MINOS Far Detector. The magnetized Near Detector has been recording charge-separated atmospheric cosmic-ray muons since January 2005. A preliminary measurement of the Muon Charge Ratio using the MINOS Near Detector will be presented.

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

MINOS Collaboration

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 1217-1220

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Session Classification : HE 2.1

Track Classification : HE.2.1