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The Reliability on the Direction of the Incident Neutrino for Fully Contained Events and Partially Contained Events due to QEL in the Super-Kamiokande

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Abstract content

Quasi Elastic Scattering is the dominant mechanism for producing both Fully Contained Events and Partially Contained Events for the examination of the neutrino oscillation in the Super-Kamiokande (SK) detector for the atmospheric neutrinos in the energy range from several hundreds MeV to several GeV. In the analysis of these neutrino events, SK collaboration assumes that the direction of the incident neutrino is the same as that of the emitted lepton. We examine the validity of the SK assumption in detail.

If this paper is presented for a collaboration, please specify the 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 1283-1286

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