

RECENT RESULTS FROM SUPER-KAMIOKANDE ON ATMOSPHERIC NEUTRINOS

J. Kameda

Kamioka Observatory, Institute for Cosmic Ray Research, Univ. of Tokyo, 456 Higashi-Mozumi, Kamioka, Yoshiki, Gifu, 506-1205, Japan.

Recent results from Super-Kamiokande on the study of atmospheric neutrinos and neutrino oscillations are presented. Fully contained events, partially contained events and upward-going muon events are used for neutrino oscillation analyses. The results of a two-flavour neutrino oscillation analysis and a three-flavour oscillation analysis are presented. The data are explained well by two flavor $\nu_\mu \rightarrow \nu_\tau$ oscillations. The allowed parameter regions are: $1.6 \times 10^{-3} eV^2 < \Delta m^2 < 4.0 \times 10^{-3} eV^2$ and $\sin^2 2\theta > 0.88$ at 90% CL.