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Recent Results from Super-Kamiokande

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The latest results of Super Kamiokande's atmospheric neutrino analyses are presented. The first part focuses on the three-flavor neutrino oscillation analysis with and without external constraints, optimized for sensitivity to the neutrino mass hierarchy, including data from all four run periods of the experiment. Confidence intervals for the oscillation parameters deltaM_23^2, \sin^2_23 , $\sin^2_2_13$ and dCP are given for both normal and inverted hierarchy hypotheses. The combined result shows a slight preference for normal hierarchy. The second part presents the most recent results of the neutrino tau appearance analysis. The no-tau appearance hypothesis is excluded at 4.6sigma level, and the inclusive charged-current nu_tau cross-section is measured to be $(0.94 \pm 0.20) * 10^{-38} \text{ cm}^2$

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