

Abstract Submitted  
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**Super-Kamiokande atmospheric neutrino results** SHIGETAKA  
MORIYAMA, ICRR, Univ. of Tokyo — We will present results from Super-Kamiokande on atmospheric neutrino analysis. The analysis is based on whole SK-I data and recent SK-II data. All of the data is consistent with two flavor neutrino oscillations. For SK-I data, we analyzed tau appearance in upward-going neutrino events and found the result is consistent with tau appearance due to muon neutrino and tau neutrino oscillations. An oscillation analysis including  $\theta_{12}$  will be reported. For SK-II, two flavor neutrino oscillation analysis has been done. The result is consistent with the SK-I result.

Shigetaka Moriyama  
ICRR, Univ. of Tokyo

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