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Atmospheric neutrino flux measurement by Super-Kamiokande

Directional-integated fluxes of atmospheric electron and muon neutrinos
are measured in the energy range from sub-GeV to seveal TeV
using Super-Kamiokande detector.
Super-Kamiokande is the largest detector in the world which has
sensitivity in this energy range, and excellent capabilities to
distinguish nu_mu and nu_e by particle identification of out-going leptons.
The energy spectrum is reconstructed using unfolding technique
with the estimation of the systematic uncertainties,
and compared with the existing flux calculation models.
We will also discuss about the possibile relevant physics
which will be available by performing
comprehensive analysis including other flux measurements in higher energies.

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Track Classification: Atmospheric Neutrinos