

Atmospheric neutrino flux calculation at low energies

The precise calculation of atmospheric neutrino fluxes in the low-energy range at JUNO is presented, where the calculating scheme is based on the method in Honda et al. Phys. Rev. D 92, 023004 (2015), but with more precise local information on the geomagnetic field, air density and mountain profile. To reduce the associated flux uncertainties, a careful consideration of the muon decay and capture inside the Earth is included.

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