

Shintaro Miki (Kamioka Obs., ICRR) smiki@km.icrr.u-tokyo.ac.jp

Abstract

We developed a new atmospheric neutrino reconstruction algorithm using the capture vertex information of the neutrons originating from neutrino reaction. Neutrino resolution is improved from 57.2° to 51.2° in direction and from 38% to 32% in energy. With the new method, expected event excess is now concentrated in fewer bins, and physics sensitivities are slightly improved.

