Pa-006

Calculation of Atmospheric Neutrino

Morihiro Honda[1]

[1] ICRR, Univ Tokyo

The discovery of neutrino oscillation in Super Kamiokande is one of the most important progress in the recent elementary particl physics. The discovery was derived by the comparison observed flux and expected one of atmospheric neutrinos. Now it is requested to determine the oscillation parameters such as, neutrino mass square difference and mixing angles. For this purpose, an accuarete calculation of atmospheric neutrino flux is also required. Therefore, not only precise measurement of primary cosmic rays and accurate hadronic interaction model, but also the understanding of the solar modulation of the primary cosmic ray spectrum are necessary.

The discovery of neutrino oscillation in Super Kamiokande is one of the most important progress in the recent elementary particl physics. The discovery was derived by the comparison observed flux and expected one of atmospheric neutrinos. Now it is requested to determine the oscillation parameters such as, neutrino mass square difference and mixing angles. For this purpose, an accuarete calculation of atmospheric neutrino flux is also required. Therefore, not only precise measurement of primary cosmic rays and accurate hadronic interaction model, but also the understanding of the solar modulation of the primary cosmic ray spectrum are necessary.