

## The expected Deep Core atmospheric neutrino spectra: theory facing earliest data?

Atmospheric neutrino may trace cosmic rays spectra, muon and electron neutrino secondaries and their final upgoing nature after mixing inside the Earth. The muon flavor change is oscillating in all directions and they are maximal in vertical axis at 24 GeV ; the upgoing muon neutrino rate and the neutral current or tau or electron showers at tens GeV should combine in a very tuned way in future Deep Core spectra. We obtained our preliminary spectra to be compared with soon published Deep Core data. Eventual neutrino CPT violation traces might be also observable.

**Auteur principal:** Dr FARGION, Daniele (Physics Departm Rome 1 INFN 1)

**Orateur:** Dr FARGION, Daniele (Physics Departm Rome 1 INFN 1)

**Classification de thématique:** Neutrino Physics