

ATMOSPHERIC MUON MEASUREMENTS III: AZIMUTHAL ANGULAR DEPENDENCE

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We have measured the atmospheric muons at sea level using the OKAYAMA telescope. We report more reliable results of the absolute differential muon fluxes and the muon charge ratio in 8 azimuthal directions for zenith angle 40° in the momentum range 1.5 to 10 GeV/c. These results show the geomagnetic field effects clear than previous ones. We suggest the significance of the azimuthal angular dependence of muons at sea level.