



Gamma-hadron separation of parent particles of air showers above several 10 TeV energies using Tibet-III air-shower array

THE TIBET AS γ COLLABORATION

chen@icrr.u-tokyo.ac.jp

Abstract: The recent advances in TeV gamma-ray astronomy are largely due to the ability to distinguish between extensive air showers generated by gamma rays and hadronic cosmic rays. In this paper, we report on a method to distinguish electromagnetic air showers from hadronic air showers in Tibet air-shower observation. An extensive Monte Carlo simulation has been carried out and the secondary particles are also propagated through the Tibet-III air shower array to study the detector response. Some preliminary results on the search for gamma-ray sources above several 10 TeV energies are discussed.