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Simulation and Reconstruction of Tau Neutrino Events of the CRTNT Experiment

Abstract content

A Tau lepton can be produced in a charged current interaction of cosmic ray tau neutrino with materials inside a mountain. If it escapes from mountain, it will decay and initiate a shower in the air, which can be detected by air shower fluorescence/Cerenkov light detector. A Monte Carlo simulation for CRTNT (Cosmic Ray Tau Neutrino Telescopes) detector near Mt. Balikun in Xinjiang, China, is performed and the results of detected and reconstructed event rates are presented in this paper.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Primary author(s) : Dr. LIU, J. (The institute of high energy physics at the Chinese Academy of Sciences)

Co-author(s) : Prof. ZHA, M. (The institute of high energy physics at the Chinese Academy of Sciences); Prof. CAO, Z. (The institute of high energy physics at the Chinese Academy of Sciences); Dr. ZHANG, B. (The institute of high energy physics at the Chinese Academy of Sciences); Dr. LIU, T.C. (Taiwan University); Prof. HUANG, M.A (Taiwan University); Dr. LIN, G.L. (Taiwan University)

Presenter(s) : Dr. LIU, J. (The institute of high energy physics at the Chinese Academy of Sciences)

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