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Simulation of Horizontal Air shower

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Abstract content

Earth-skimming neutrino experiment such as NuTel or CRTNT detects air shower, which is produced by decay of tau lepton, from near horizontal direction. Traditional shower simulations have difficulty in simulating shower at zenith angle near 90 degree, where some variables diverge to infinity. Recent CORSIKA simulation code had updates on simulation of horizontal air shower. We also developed a method to simulate horizontal air shower. This talk will compare results from both methods.

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

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 4 (HE part 1), pages 609-612

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