Contribution ID : **731** Type : **Poster**

The Status of the Track Imaging Cerenkov Experiment

Wednesday, 4 July 2007 14:45 (0:00)

Abstract content

In distinguishing between the atmospheric Cerenkov light initiated by the primary cosmic ray and its associated air shower, the Track Imaging Cerenkov Experiment (TrICE) is devised to measure the composition of cosmic rays at TeV-PeV energies. The instrument is a fixed-mount zenith telescope that uses a fresnel lens as a early trigger and 4m focal length spherical mirrors to produce the image on the focal plane over a 1.5 degree field-of-view. The TrICE camera, composed of multi-anode photomultiplier tubes with 0.086 degree angular spacing, is digitized continuously by a custom ASIC at 53 MHz with a dynamic range of 16 bits. Here we describe the commissioning and calibration of TrICE.

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

TrICE

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. 2 (OG part 1), pages 413-416

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Session Classification : Posters 1 + Coffee

Track Classification : OG.1.5