30th International Cosmic Ray Conference



Contribution ID: 1012 Type: Poster

The performance of atmospheric Cherenkov telescopes using the CRTNT prototype detector

Abstract content

The prototype Cosmic Ray Tau Neutrino Telescopes (CRTNT) are operated at the Yangbajing Cosmic Ray Observatory (4300 m a.s.l Tibet, P.R.China). To evaluate the performance of the CRTNT prototype, two telescopes are operated in stereoscopic mode and in coincidence with the ARGO-YBJ detector. Air shower simulation (based on CORSIKA), detector simulation, and event reconstruction are combined together to study the performance of CRTNT prototype. The detector aperture as a function of shower energy above 10^13 eV and event rate above 10^14 eV will be presented in the conference.

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

Summary

Reference

Primary author(s): Dr. YUNXIANG, Bai (Institute of high energy physics of china academy of sciences)

Co-author(s): Dr. ZHEN, Cao (Institute of high energy physics of china academy of sciences); Dr. MIN, Zha (Institute of high energy physics of china academy of sciences); Prof. HUIHAI, He (Institute of high energy physics of china academy of sciences)

Presenter(s): Dr. YUNXIANG, Bai (Institute of high energy physics of china academy of sciences)

 $\textbf{Session Classification:} \ \ \mathsf{Posters} \ 2 + \mathsf{Coffee}$

Track Classification: HE.1.5