Contribution ID : **1240** Type : **Poster**

TALE Stereo/Hybrid Analysis

Abstract content

we present results of a simulation study on the expected performance of the TA/TALE detector. In particular we look at the anticipated gains in aperture below 10^18.5 eV which would result from the addition of the TALE detector to TA. We calculate the aperture at shower energies from 10^17 up to 3x10^20 for various detector combinations and observation modes: mono, stereo, hybrid-mono, and hybrid-stereo. We also perform event reconstruction of the simulated data and examine the results for energy and xmax resolution, and the accuracy of the showers pointing direction determination. Above 1e19 the stereo detector has complete coverage over the ground array which gives an unprecedented combination of large aperture and excellent angular resolution which will make TA/TALE a powerful tool in searching for point sources of ultrahigh energy cosmic rays.

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

Telescope Array / HiRes

Summary

Reference

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