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## Monte Carlo studies of the VERITAS array of Cherenkov telescopes

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### Abstract content

The Very High Energy Telescope Array (VERITAS) is a system of four imaging Cherenkov telescopes located at the Fred Lawrence Whipple Observatory in southern Arizona. We present here results of detailed Monte Carlo simulations of the array response to extensive air showers. Cherenkov image and shower parameter distributions are calculated and show good agreement with distributions obtained from observations of background cosmic rays and high-energy gamma-rays. Several different approaches to the simulation of the telescope response and the trigger system of the array allow an estimation of the systematic uncertainties of the calculations.

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

VERITAS

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 3 (OG part 2), pages 1413-1416

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