

Calibration of VERITAS Telescope 1 via Muons

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Abstract: Cherenkov light from cosmic-ray muons is a significant source of background for the Imaging Atmospheric Cherenkov Technique. However, muon events are also valuable as a diagnostic tool because they produce distinctive ring images, and the expected amount of Cherenkov light per unit arclength can be accurately calculated. We report on a comparison of real and simulated muon events in VERITAS Telescope 1, using this comparison to validate the detector model and to determine the light collection efficiency of the telescope.