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Bias Alignment of the VERITAS telescopes

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Abstract content

The mirror facets on the VERITAS telescopes, which are of Davies-Cotton design, are aligned with the telescope axis in the horizontal position using a laser projector at the radius of curvature. The instrument used will be described. The mechanical design of the Optical Support Structure permits some gravitational slumping with elevation which can be counteracted by bias alignment (deliberate misalignment at 0 degree elevation). In practice this allows the optimum Point Spread Function (PSF) to be attained over an elevation range from 50 to 85 degree. The on and off axis PSFs, before and after bias alignment, will be presented.

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

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. 3 (OG part 2), pages 1401-1404

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