30th International Cosmic Ray Conference

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Wide field aplanatic two-mirror telescope for ground-based gamma-ray astronomy

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Abstract content

We present a design for novel two-mirror aplanatic telescopes for use in ground-based gamma-ray astronomy. Comparing to a traditional Davies-Cotton reflector, an aplanatic telescope can achieve significant reduction of plate scale. The telescope design can be configured to balance the need for wide-field of view, high angular resolution, large light collecting area, and high degree of uniformity over the field. We present general results of analytic and simulation studies of the optics and discuss their application to large arrays of imaging atmospheric Cherenkov telescopes of moderate size.

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 1445-1448

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