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Simulation Study of TenTen: A new Multi-TeV IACT array

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Abstract content

TenTen is a proposed array of Imaging Atmospheric Cherenkov Telescopes (IACT) optimised for the gamma ray energy regime above 10 TeV. It will offer a collecting area of 10 km^2 above energies of 10 TeV. In the initial phase, a cell of 3 to 5 modest-sized telescopes, each with 10-20 m^2 mirror area, is planned for an Australian site. A possible expansion of the array would comprise many such cells. Here we present recent work on configuration and technical issues from our simulation studies of the array. Working topics include array layout, telescope size and optics, camera field of view, telescope trigger system, electronics, and site surveys.

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

TenTen

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 1305-1308

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