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Expected Performance of the GAW Cherenkov Telescopes Array - Simulation and Analysis

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Abstract content

GAW is a research and development project to test the feasibility of a new generation of Imaging Atmospheric Cherenkov Telescopes suitable for large field observations. GAW is defined as an array of three identical imaging Cherenkov telescopes posed at the vertexes of a quasi-equilateral triangle, 80m side. Each telescope is equipped with a refractive optics consisting of a 2.13m diameter Fresnel lens, and with a focal surface formed by a grid of multi-anode photomultipliers operating in single photoelectron counting mode. The array will be erected at the Calar Alto Observatory, Spain, at 2150m a.s.l.; the first telescope will be installed within Autumn 2007. A consistent set of simulation data have been produced, with CORSIKA, to study the expected performance of GAW both for the complete array and for its first telescope. A proper image analysis code has been developed; the results are described in this contribution.

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 1297-1300

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