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The status of high altitude Himalayan Gamma Ray Observatory at Hanle

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Abstract content

A new gamma ray observatory comprising a large area imaging Cherenkov telescope and an array of wavefront sampling telescopes is being set up at a high altitude astronomical site, Hanle (32.8 deg N, 78.9 deg E, 4200 m asl) , in the Ladakh region of the Himalayas to detect celestial gamma rays. The high altitude and low night sky background of the site palys an important role in lowering the energy threshold of this ground-based setup of atmospheric Cherenkov telescopes to few ten's of GeV. To begin with, a non-imaging 7 telescope array (called HAGAR) will be set up. All the 7 telescopes, each with seven 90 cm dia mirrors mounted on a single platform, are already installed at Hanle and are being integrated with the telescope control system as well as the data acquisition system. This system will be followed by a 21 m dia imaging telescope system (called MACE) in the second phase of construction. The details of the 2 telescope systems, results of the simulation studies, current status and the time line for the project will be discussed in this paper.

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

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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 1361-1364

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