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Prospects of searches for ultra-high energy photons

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Abstract content

The observation of ultra-high energy (UHE) photons above 1 EeV would open a new window of cosmic-ray research with possible impact on astrophysics, particle and fundamental physics. The advent of new giant air shower experiments, particularly the Pierre Auger Observatory, offers a unique potential to search for such photons. Status and prospects of experimental photon searches are reported. Implications of the (non-)observation of UHE photons as well as the contribution of UHE photon searches to multimessenger observations of the universe are discussed.

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. 4 (HE part 1), pages 499-502

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