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Search for Gamma Ray Bursts using the single particle technique at the Pierre Auger Observatory

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Abstract content

The Pierre Auger Observatory, with an array of currently more than a thousand Cherenkov detectors filled with 12 m³ of water, can detect the putative high energy emission of a GRB (photons down to a few hundreds of MeV) by the so-called “single particle technique”, through a coherent increase in the average background particle rates over the whole array, due to secondary particles in the photon-induced showers. We present a search for bursts on data collected since September 2005, as well as a search for excesses in coincidence with bursts observed by satellites.

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

The Pierre Auger 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 441-444

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