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Trigger Strategy for Radio Detection in Atmospheric Air Showers with LOPESˆSTAR

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Abstract content

In the framework of LOPES (LOFAR PrototypE Station), a Self-Triggered Array of Radio detectors (STAR) is developed. The challenge of LOPESˆSTAR is to provide an independent self-trigger on radio emission of extensive air showers with primary energy above approximate 5*10ˆ17 eV. Measurements are done both with an external and self-trigger in radio loud and quiet areas. Based on these data the self-trigger is optimised and higher level triggers are developed, as well as algorithms for reconstruction of shower observables. The methods and first results from LOPESˆSTAR are described.

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

LOPES

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. 5 (HE part 2), pages 1081-1084

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