Contribution ID : **923** Type : **Oral**

Trigger Strategy for Radio Detection in Atmospheric Air Showers with LOPES^STAR

Tuesday, 10 July 2007 12:05 (0:12)

Abstract content

In the framework of LOPES (LOFAR PrototypE Station), a Self-Triggered Array of Radio detectors (STAR) is developed. The challenge of LOPES^STAR is to provide an independent self-trigger on radio emission of extensive air showers with primary energy above approximate 5*10^17 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 LOPES^STAR 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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Session Classification : HE 1.5

Track Classification : HE.1.5