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First results from the ARGO-YBJ experiment

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Abstract content

The central array of the ARGO detector at the YangBaJing Cosmic Ray Laboratory (4300 m a.s.l., Tibet, P.R. China) has been put into operation for physics runs. It is made of 130 identical sub-units of 12 RPCs each ('cluster') covering a surface of about 5800 m**2 with 92% active area. Signals are picked-up by external electrodes of small size, thus allowing the sampling of EAS with high space-time granularity. Shower events are detected at a trigger rate of about 4 kHz. Events with a few particles detected by a single cluster are counted in scaler mode on a time base of 500 milliseconds. Preliminary results from the analysis of events collected in a few months of data taking are presented.

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

ARGO-YBJ Cllaboration

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 1499-1502

Primary author(s) : Dr. MARTELLO, Daniele (Dip. of Physics - Univ. of Lecce (Italy) & INFN Lecce)

Presenter(s) : Dr. MARTELLO, Daniele (Dip. of Physics - Univ. of Lecce (Italy) & INFN Lecce)

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