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Long-term study of the environmental effects on the ARGO-YBJ RPC array

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Abstract content

After a 1-year-long running time, much information has been collected on the performance of the ARGO-YBJ detector. In particular, increased expertise on the detector behaviour in the peculiar environmental conditions of the experimental site (4300 meters a.s.l.) has been reached. Here we show and discuss the correlation between the detector operating parameters and the environmental factors, exploiting the statistical significance provided by a long-term monitoring of the whole full-coverage central array of 1560 Resistive Plate Chambers.

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

ARGO-YBJ

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 901-904

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