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Performance of the $1.5 \cdot 10^5$ front-end electronics channels of the ARGO-YBJ experiment

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Abstract content

By using an 8-channel custom chip in GaAs technology, over $1.5 \cdot 10^5$ front-end electronics channels were built, tested and installed in the resistive plate chambers (RPCs) of the ARGO-YBJ experiment. These channels were designed to obtain 1 ns time resolution over about 6000 m^2 of sensitive area. Here we present the design features, the performance and the results during a long operational time at an altitude of 4300 meters a.s.l.

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 897-900

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