30th International Cosmic Ray Conference

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The TOF system of the PAMELA Experiment: In-orbit performance

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Abstract content

A time-of-flight scintillator system (TOF) has been developed for the PAMELA satellite-borne cosmic ray experiment, mounted on the Resurs DK1 satellite and launched from the Baikonur cosmodrome on June 15th 2006. PAMELA was built to measure charged particles in the cosmic radiation with a particular focus on antiparticles. The TOF scintillator system provides the fast trigger to the experiment, the rejection of albedo particles, and in combination with a magnetic spectrometer the possibility to distinguish electrons from anti-protons up to about ˜1 GeV. Ionising energy loss measurements in the scintillator planes allow the absolute charge of traversing particles to be determined. The in-orbit performance of the TOF system is presented.

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

Presenter for the PAMELA collaboration

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. 2 (OG part 1), pages 365-368

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