### 30th International Cosmic Ray Conference



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# The First Year in Orbit of the PAMELA experiment

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#### **Abstract content**

On the 15th of June, the PAMELA experiment mounted on the Resurs DK1 satellite, was launched from the Baikonur cosmodrome and since July 2006 it is collecting data. PAMELA is a satellite-borne apparatus designed to study charged particles in the cosmic radiation, to investigate the nature of dark matter, measuring the cosmic-ray antiproton and positron spectra over the largest energy range ever achieved, and to search for antinuclei with unprecedented sensitivity. The PAMELA apparatus comprises a time-of-flight system, a magnetic spectrometer, a silicon-tungsten electromagnetic calorimeter, an anticoincidence system, a shower tail catcher scintillator and a neutron detector. We will present the status of the apparatus after one year in orbit. Furthermore, we will discuss the PAMELA in-flight performances and their effects on the scientific goals of the mission.

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

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 99-102

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