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The PAMELA neutron detector operating on the orbit

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Abstract content

On 15-th June 2006 from Baikonur cosmodrom the satellite RESURS - DK1 was successfully launched. The international team of researchers performs the scientific investigations of cosmic rays in a wide energy range with the spectrometer PAMELA on board of this satellite. The neutron detector is a part of the PAMELA spectrometer. It's task is to separate the cascades of hadron and lepton origin. A brief description of the neutron detector construction and operation mode is presented. The preliminary data on the latitudinal dependence of the neutron fluxes are given and compared with results of previous measurements. The neutron fluxes at the Earth's day and night sides are compared.

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 325-328

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