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On the detailed information in the regular balloon monitoring of cosmic rays: the description of the method and some new results

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Abstract content

The long-term experiment of the regular balloon cosmic ray monitoring in the Earth's atmosphere has been carried out by Lebedev Physical Institute, RAS, Moscow, Russia, for almost 50 years (since July 1957) and still provides useful data on both galactic and solar cosmic rays. However there are some flaws in the standard method of data registration that sometimes hinder getting good data. To overcome some of these shortcomings we suggested recording besides the standard information (the number of pulses emitted by the transmitter for each minute of the flight) so-called detailed information (the form and characteristics of every pulse received). By now these data are recorded for more than 1500 flights: ˜ 1300 flights in Dolgoprudny (since May 1996) and ˜ 200 flights in Apatity (since October 2005). In the talk, besides briefly describing the method, we consider some new important features of the data, which could be got only using the detailed information and discuss the influence on the data of the varying radio-background.

If this papers is presented for a collaboration, please specify the 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. 1 (SH), pages 465-468

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