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The Data Processor System of EUSO Balloon: in flight performance.

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The EUSO-Balloon experiment is a pathfinder mission for JEM-EUSO which has as its main objective an end-to-end test of all the key technologies and instrumentation of JEM-EUSO detectors.

The instrument is a telescope of smaller dimension with respect to the one designed for the ISS, it is mounted in an unpressurized gondola of a stratospheric balloon. It was launched during the CNES flight campaign in August 2014 from the Timmins (Ontario) base. The flight lasted about five hours and the payload reached a float altitude of about 40 km.

In this paper we will present the Data Processor (DP) of EUSO-Balloon. The DP is the component of the electronics system which performs the data handling and, through the interface with the telemetry system, allows the controlling and the monitoring of the instrument from ground. We will describe the main components of the system and their performance during the flight.

Collaboration

JEM-EUSO

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