



Contribution ID: 1155

Type: **Poster contribution**

Analysis of EUSO-Balloon data with Offline

Tuesday, August 4, 2015 4:00 PM (1 hour)

EUSO-Balloon is a balloon-borne experiment, conceived as a pathfinder for JEM-EUSO experiment which is the first experiment measuring the highest energy cosmic rays from space.

EUSO-Balloon is equipped with an optical system made by two Fresnel lenses and one photo detection module (PDM), representing a complete prototype for the JEM-EUSO experiment.

On 24th August 2014 EUSO-Balloon was launched from Timmins Balloon base in Ontario (Canada) in collaboration with the French Space Agency CNES. The flight lasted about 5 hours with a float altitude of about 38 km, observing regions with different background light. The instrument has been also tested with laser shots emitted from an helicopter flown under the balloon for about 2 hours. A procedure to analyze these data and compare them with simulation is developed into the Offline framework. The results are reported in the following contribution.

Collaboration

JEM-EUSO

Registration number following "ICRC2015-I"

901

Primary authors: PANICO, Beatrice (INFN Napoli (IT)); Dr CAMPANA, Donatella (INFN Napoli (IT)); Dr GUARINO, Fausto (Universita e INFN, Napoli (IT)); CAFAGNA, Francesco (Universita e INFN, Bari (IT)); Dr PERFETTO, Francesco (Univeristà di Napoli (IT)); Dr FOUKA, Muorad (CRAAG, Algiers, Algeria); Dr SAHNOUN, Zouleikha (CRAAG, Algiers, Algeria)

Presenter: PANICO, Beatrice (INFN Napoli (IT))

Session Classification: Poster 3 CR

Track Classification: CR-IN