ICRC2015

ICRC
The Astroparticle Physics Conference
34th International Cosmic Ray Conference
July 30 - August 6, 2015
The Hague, The Netherlands

Contribution ID: **1129** Type: **Oral contribution**

Study on CRE arrival distributions with PAMELA experiment

Tuesday 4 August 2015 11:15 (15 minutes)

From 2009, several experiments, like PAMELA, FERMI and AMS, have shown a rise in the fraction of positrons versus electrons+positrons. One of the most probable explanation is due to the presence of nearby sources, like SNRs or pulsars. PAMELA (Payload for Antimatter Matter Exploration and Light-nuclei Astrophysics) is a ballooon-borne experiment and is collecting data since 15 June 2006. Its quasi-polar orbit permits to perform a survey in each direction of the sky. The study of the arrival distribution of cosmic ray electrons and positrons from different regions allows the exploration of different origins for the excess.

Collaboration

– not specified –

Registration number following ”ICRC2015-I/”

901

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Session Classification: Parallel CR15 Direct/Aniso

Track Classification: CR-EX