

Contribution ID: 328

Type: Talk

Updated Limits on Anisotropy in Electron+Positron Cosmic Rays from CALET Data

Monday 21 July 2025 17:20 (15 minutes)

The ISS-based Calorimetric Electron Telescope (CALET) is directly measuring the energy spectrum and direction distribution of electron+positron cosmic-rays up to 20 TeV. The electron+positron events measured by CALET have been analyzed for a possible dipole anisotropy, which could be a signature of nearby SNR such as Vela.

The methods used to derive limits on the anisotropy from the reconstructed events are explained, including the procedures to compensate for non-uniform sky exposure and inhomogeneous detector acceptance. Upper limits on the dipole moment as a function of lower threshold energy, with doubled statistics compared to previously shown results, are presented.

Collaboration(s)

CALET

Author:MOTZ, Holger (Waseda University)Co-author:AKAIKE, Yosui (Waseda University)Presenter:MOTZ, Holger (Waseda University)Session Classification:CRD

Track Classification: Cosmic-Ray Direct & Acceleration