



Contribution ID: 172

Type: **not specified**

The fourth Data Release of the fourth Fermi LAT source catalog

Monday, 11 September 2023 14:15 (15 minutes)

The fourth release of the Fourth Catalog of Fermi-LAT Sources (4FGL-DR4), based on 14 years of data between 50 MeV and 1 TeV, is presented. Improvements in the analysis method relative to the original 4FGL catalog and new features are reviewed. The 4FGL-DR4 includes about 500 more sources than the previous release (4FGL-DR3, obtained with 12 years of data) and about 2100 more sources than 4FGL. About 40% of the new sources are associated with counterparts at other wavelengths, which are mostly blazar candidates. The properties of the sources reported in the catalog are discussed, with particular attention to those unassociated lying close to the Galactic plane.

Primary authors: LOTT, Benoit (CENBG); GASPARRINI, Dario (Istituto Nazionale di Fisica Nucleare); BALLETT, Jean (AIM/SAP, CEA Saclay); BRUEL, Philippe (LLR CNRS/IN2P3 - Ecole Polytechnique); BURNETT, Toby (University of Washington)

Presenter: GASPARRINI, Dario (Istituto Nazionale di Fisica Nucleare)

Session Classification: GRA: Gamma Ray Astronomy

Track Classification: Gamma Ray Astronomy