

Highlights from the Fermi Large Area Telescope after 5 years of operations

Thursday 5 September 2013 13:30 (30 minutes)

The Fermi Large Area Telescope (LAT) has been exploring the high-energy gamma-ray sky since its launch on June 11, 2008.

After 5 years of essentially flawless operations, the LAT collected more than 800 million gamma rays from 20 MeV to more than 300 GeV.

With its uniform coverage of the sky, the LAT allowed the first high statistics observations of gamma-ray sources of known classes as well as a discovery of new emitters.

The LAT allowed also a detailed study of the diffuse gamma-ray emission, which constitutes roughly 90% of the LAT photons, and constrains cosmic-ray production and propagation in our own Galaxy.

In this talk I will review the status and the performance of the LAT and describe the some of the most important scientific results.

Author: SGRO', Carmelo (INFN-Pisa)

Presenter: SGRO', Carmelo (INFN-Pisa)

Session Classification: Session 7

Track Classification: Applications in Space, Medical, Biology, Material Sciences