

# Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



Contribution ID: 19

Type: **not specified**

## GRB observations with Fermi

*Thursday, 22 May 2014 11:00 (25 minutes)*

After almost 6 years of science operation, the Large Area Telescope (LAT) onboard the Fermi Gamma-Ray Space Telescope has detected more than 70 Gamma-Ray Bursts above 30 MeV. We will give an overview of these observations, focusing on the recently published first LAT GRB catalog (based on the first 3 years of operation), and presenting the common properties in the GRB temporal and spectral behavior at high energies. We will also highlight the unique characteristics of some individual bursts. The main physical implications of these results will be discussed, along with open questions regarding GRB modelling in their prompt and temporally-extended emission phases.

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**Session Classification:** Cosmic Ray origin, Gamma and Neutrino Astronomy