

TGFs with FERMI Large Area Telescope (LAT)

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The Fermi LAT regularly detects Terrestrial Gamma-ray Flashes (TGFs) during its nominal astrophysical sky-survey observing program. Because of the LAT's flexible trigger logic, TGF emissions at and above 10 MeV are detected with high sensitivity despite their having arrived from outside the instrument's field of view. A deep search of the first four years of LAT data reveals more than 300 TGFs with hard gamma-ray emission, of which many were independently detected by Fermi GBM. Here we present a summary of the spectral, temporal, diurnal, and geographic features of this sample of high-energy TGFs.

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