

Exploring Fermi-LAT Extended GeV Emission with Stacking Analysis

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Temporally extended emission at energies > 100 MeV have been seen nearly all of the bright GRBs detected by Fermi-LAT. The production mechanism and relationship to broadband afterglow emission remains controversial without detailed simultaneous multi-wavelength observations on individual sources. We explore this problem by stacking separately, the gamma-ray and X-ray emission for ~ 150 Swift GRBs over the first few thousand seconds of overlapping observations after a trigger, and discuss the potential presence of an additional spectral component.