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Gamma-Ray Burst Observations with Fermi

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Since its successful launch on June 11th, 2008, the Fermi Gamma-Ray Space Telescope has detected gamma-ray emission from Gamma-Ray Bursts (GRBs) spanning a very broad spectral range, from below 10 keV with the Gamma-ray Burst Monitor (GBM) up to more than 10 GeV with the Large Area Telescope (LAT). We will present the results of the combined analysis of GRBs that have been detected by both instruments onboard Fermi, including: the long GRB 080825C which had over a dozen LAT events; the long GRB 080916C with about 150 events above 100 MeV, a long-lived high-energy emission up to 23 minutes after the initial trigger, and the most stringent limit to date on the GRB outflow bulk Lorentz factor; and GRB 081024B, the first ever short GRB with high-energy gamma-ray emission above 1 GeV.

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Classification de Session: GRBs from the observation prospective and implication for GWHEN searches