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High-Energy Gamma-Ray Bursts with Fermi

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After more than four years of science operation, the Large Area Telescope (LAT) onboard the Fermi Gamma-Ray Space Telescope has detected more than 35 Gamma-Ray Bursts above 100 MeV. Fermi-LAT has provided a unique new dataset of high energy observations of Gamma-ray Bursts, which has led to many recent theoretical advancements and challenges. I will present an overview of the first 4 years of observations with particular emphasis on the new features that are common in the temporal and spectral behavior of gamma-ray burst with high energy emission. In this talk, I will compare our results with the prediction of the standard fireball model and I will also highlight the difficulties of describing the prompt emission spectra with a simple Band model.

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