Contribution ID: **398** Type: **Poster**

Catalog of isolated emission episodes in Gamma-ray bursts from Fermi, Swift and BATSE

The complexity of temporal profiles of the prompt emission in Gamma-Ray Bursts (GRBs) is still not well understood. Several GRBs show distinct emission episodes, separated with a quiescent interval during which the gamma-ray flux falls to the background level. We present a large catalog of long GRBs with isolated emission episodes from a systematic search in Fermi, Swift and BATSE. The properties of the events prior and after the main emission (the event with the higher peak flux) are statistically similar, possibly indicating a common origin. In several GRBs, the emission extends far beyond T90, which may have significant consequences for the identification of non-electromagnetic counterparts.

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