

Untriggered GRBs in GBM data

Introduction

The Gamma-Ray Burst Monitor (GBM) currently operates on several trigger algorithms on various time scales and energy bands.

Motivated by the pursuit of faint GRBs, the search for untriggered GRBs in GBM data is outlined here. To this end, I will demonstrate the methods and algorithms which have been developed by the GBM team together with a preliminary spectral analysis of 16 untriggered GRBs.

Currently, it is estimated that the lower limit for untriggered GRBs in GBM data is about 1.6 GRBs per month.

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