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GSPEC - Gamma-ray Spectroscopy Analysis Package

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The Fermi Gamma-ray Burst Monitor (GBM), with its broad energy range and instantaneous coverage of 2/3 of the sky, observes a wide variety of flaring or transient phenomena. These capabilities make it ideally suited for the search of transient events and to contribute to the new era of multi-messenger astrophysics. The GBM team has recently released the GSPEC analysis package, a modern GUI-based tool written in Python that uses XSPEC under the hood to perform spectral analysis of GBM data. While the initial release of the GSPEC is primary focused on GRB spectroscopy via the interactive GUI, work is underway to develop a full application programming interface (API) to facilitate the analysis, manipulation, and visualization of GBM data. The final GSPEC API will serve as an analog to the Fermipy tools developed for the Fermi Large Area Telescope (LAT).

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