



GLAST Cycle 1 GI Program Proposal Tools

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Outline

- **RPS Proposal Webform**
- **Source Detectability**
- **GLASTspec**
- **Documentation**



RPS Proposal Webform

- **Users must register with AKBAR**
(<http://heasarc.gsfc.nasa.gov/akbar/>)
- **Users must join ‘GLAST Guest Investigator RPS (GLAST)’ group; they should also join the ‘GLAST Target of Opportunity RPS (GLASTTOO)’ to submit TOO requests.**
- **The proposal form reflects Cycle 1 stage 1 plans:**
 - **Includes maximum budget request**
 - **No institutional signatures**
 - **Target form can be filled out for all observation types, MUST be filled out for ‘correlative.’ Proposers will be instructed that they must fill out target form for any observation type if proposal deals with sources.**
 - **E.g., study that tests new data analysis method on 3C273 RXTE lightcurve requires a target form for 3C273**
 - **Target form requires only source name, type and coordinates**
- **TOO RPS webform also created**



Source Detectability Tool

- LAT team has created tools to calculate TS for a power law source sitting on a uniform diffuse background. Inputs are:
 - Background (calculated from source position)
 - Spectral index
 - Flux (e.g., above 100 MeV)
 - Exposure time, assuming survey mode
 - Energy band
- Source significance is $\sigma \sim TS^{1/2}$
- Webtool created to present TS as a function of these inputs; currently a parameterization based on LAT tools
- Community will also be provided with copious sensitivity maps (different energy bands, timescales, spectral indices)



GLASTspec

- Tool is GLAST version of WebSpec, a tool that runs XSPEC's fakeit command from a website.
- Result is webpage with plot of simulated spectrum, fit of simulated spectrum, fluxes, etc.
- Nine detector/observation type/background cases:
 - LAT survey mode at Galactic pole, 45° latitude, plane. Response matrices and background are from DC2 simulations and SAE tools.
 - GBM NaI and BGO detectors at 0°, 30° and 60° to detectors. Response matrices and background were provided by Marc Kippen many years ago; used for DC2.
- Models are appropriate to GLAST
 - But energies are in keV



Proposal Documentation

- **ROSES-2007 will be released mid-month.**
- **Webpage with detailed instructions has been prepared and reviewed.**
- **Technical handbook (similar to Swift's handbook and CGRO's Appendix G) has been drafted, is under review. Currently PDF from LaTeX, may also be webpages (using LaTeX2HTML).**
- **GSSC website (<http://glast.gsfc.nasa.gov/ssc/>) was updated to incorporate URLs included in ROSES text. More updates in next month. GUC is encouraged to review.**