



# ***FERMI* GI PROGRAM**

<http://fermi.gsfc.nasa.gov/ssc/proposals/>

## **Salient Facts about *Fermi***

- Launched in June 2008, into low earth orbit.
- 5 year operation (10 year goal).
- NASA/DOE/International collaboration.
- Large Area Telescope (LAT) performance (for details see [http://www-glast.slac.stanford.edu/software/IS/glast\\_lat\\_performance.htm](http://www-glast.slac.stanford.edu/software/IS/glast_lat_performance.htm)):
  - Energy Range: <20 MeV to >300 GeV.
  - Peak effective area: >8000 cm<sup>2</sup>.
  - Single photon angular resolution: <3.5° at 100 MeV, <0.15° above 10 GeV.
  - Field of view: >2 sr, effective area half maximum at 55°.
- Gamma-ray Burst Monitor (GBM):
  - 12 NaI detectors (~10-1000 keV), 2 BGO detectors (~0.20-30 MeV).
  - Burst detection, localization, spectroscopy.
- *Fermi* Science Support Center (FSSC) at Goddard Space Flight Center is the mission's interface with the scientific community. The FSSC provides data, analysis software, documentation and user assistance. Analysis software has been developed in partnership with the instrument teams.
- The *Fermi* Users' Group membership and minutes can be found at <http://fermi.gsfc.nasa.gov/ssc/resources/fug/>.
- The GLAST Fellows Program has been merged into the Einstein Fellows Program.

## **Salient Facts about the GI Program**

- Yearly cycles, with first cycle beginning August 14, 2008.
- Funding (approximate and subject to change)—\$8 M, ~75 Regular proposals with average awards of \$50-80K with a ceiling of \$100K, together with ~8 Large proposals with average awards of \$100-200K per year, with a ceiling of \$200K per year.
- Cycle 2 proposals for:
  - Analysis of *Fermi* (LAT or GBM) science data.
  - Pointed LAT observations
  - Correlated multiwavelength observations (also joint program with NRAO and NOAO)
  - *Fermi*-relevant data analysis methodology.
  - *Fermi*-related theory.
- Two-step proposal process:

- Phase 1—scientific justification submitted through RPS.
- Phase 2—funding request for successful phase 1 proposals, submitted through NSPIRES.

### **Salient Facts about the GI Program, continued**

- Data policy:
  - LAT gamma-ray event lists will be released as soon as processed, along with Cycle 1 LAT event lists.
  - GBM data released as soon as processed.
  - The LAT team provides to the community the lightcurves and spectra of ~20 sources of interest (see [http://fermi.gsfc.nasa.gov/ssc/data/policy/LAT\\_Monitored\\_Sources.html](http://fermi.gsfc.nasa.gov/ssc/data/policy/LAT_Monitored_Sources.html)) and the lightcurves and spectra of intense transient sources.
  - Gamma-ray burst alerts, localizations, and lightcurves will be circulated as Gamma-ray burst Coordinate Network (GCN) Notices and Circulars.
- Observations:
  - Survey mode—continuous survey of the full sky. Default mode.
  - Pointed mode—target near center of LAT FOV. GIs proposing for this mode must provide compelling justification.

### **Tentative Schedule (Approximate Dates)**

Cycle 2 proposal aids posted on GSSC website	December 6, 2008
Science tools released	Early February, 2009
Preliminary LAT source list released	Early February, 2009
Cycle 2 Phase 1 (Science) proposals due	March 6, 2009
Cycle 2 Phase 1 proposal review	Mid May 2009
Results of proposal review released	Mid June, 2009
Cycle 2 begins	August 14, 2009
Cycle 2 funding released	August, 2009

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