

Fermi Users Group



FSSC News

Chris Shrader,
Fermi Science support Center
NASA/GSFC

Staffing Changes



- Tom Stephens leaving for SOFIA
 - Feb 13 2009
- Elizabeth Ferrara joins SSC
 - Jan 19 2009
 - Formerly w/GLAST Project Office

Archive Status



- GBM data bases products implemented
 - Trigger, GRB & daily data tables
 - Calibration & pipeline issues being resolved
- LAT LC tables currently implemented
 - Browse table + simple web interface
- LAT data server implemented, not public
 - Used by SSC & LAT consortium
- Ready to post bright source list
 - FITS, HTML

LAT Bright Source List



Accompanying text forthcoming (+astro-ph link)

No Browse table implemented since this is not a permanent database product.

SSC :: Data Access

[LAT Bright Source List](#)

Download:

- [FITS File](#)
- [Excel File](#)
- [ASCII File](#)

Columns can be sorted by clicking on the column heading.

Source Name	R.A.	Decl.	l	b	95% conf. radius	Test Statistic	Flux (100MeV-1GeV)	Flux U
0FGL J0007.4+7303	1.852	73.065	119.690	10.471	0.054	4176.825	3.245e-07	1.332e-
0FGL J0017.4-0503	4.358	-5.054	101.274	-66.485	0.252	215.391	1.180e-07	1.432e-
0FGL J0025.1-7202	6.295	-72.042	305.786	-44.941	0.163	161.933	5.087e-08	2.041e-
0FGL J0030.3+0450	7.600	4.848	113.111	-57.622	0.138	351.236	5.555e-08	3.979e-
0FGL J0033.6-1921	8.401	-19.360	94.215	-81.220	0.147	115.554	4.730e-09	3.447e-
0FGL J0036.7+5951	9.177	59.854	121.081	-2.965	0.144	106.992	6.708e-08	3.095e-
0FGL J0050.5-0928	12.637	-9.470	122.209	-72.341	0.130	421.898	8.114e-08	1.325e-
0FGL J0051.1-0647	12.796	-6.795	122.751	-69.666	0.127	245.717	6.585e-08	1.404e-
0FGL J0100.2+0750	15.051	7.844	126.716	-54.963	0.110	122.214	2.482e-08	0.000e+
0FGL J0112.1+2247	18.034	22.790	129.148	-39.832	0.134	309.576	5.374e-08	7.265e-
0FGL J0118.7-2139	19.676	-21.656	172.990	-81.728	0.164	317.166	7.047e-08	1.059e-

NRA Cycle-2 Preparations

- Proposal support materials online
 - LAT detectability tool,
 - “FermiSpec” facility
- 66 NOIs received as yesterday
 - New names, fresh ideas
- ARK/RPS system tested, now online
 - Changes from past FUG implemented
- Review plans progressing

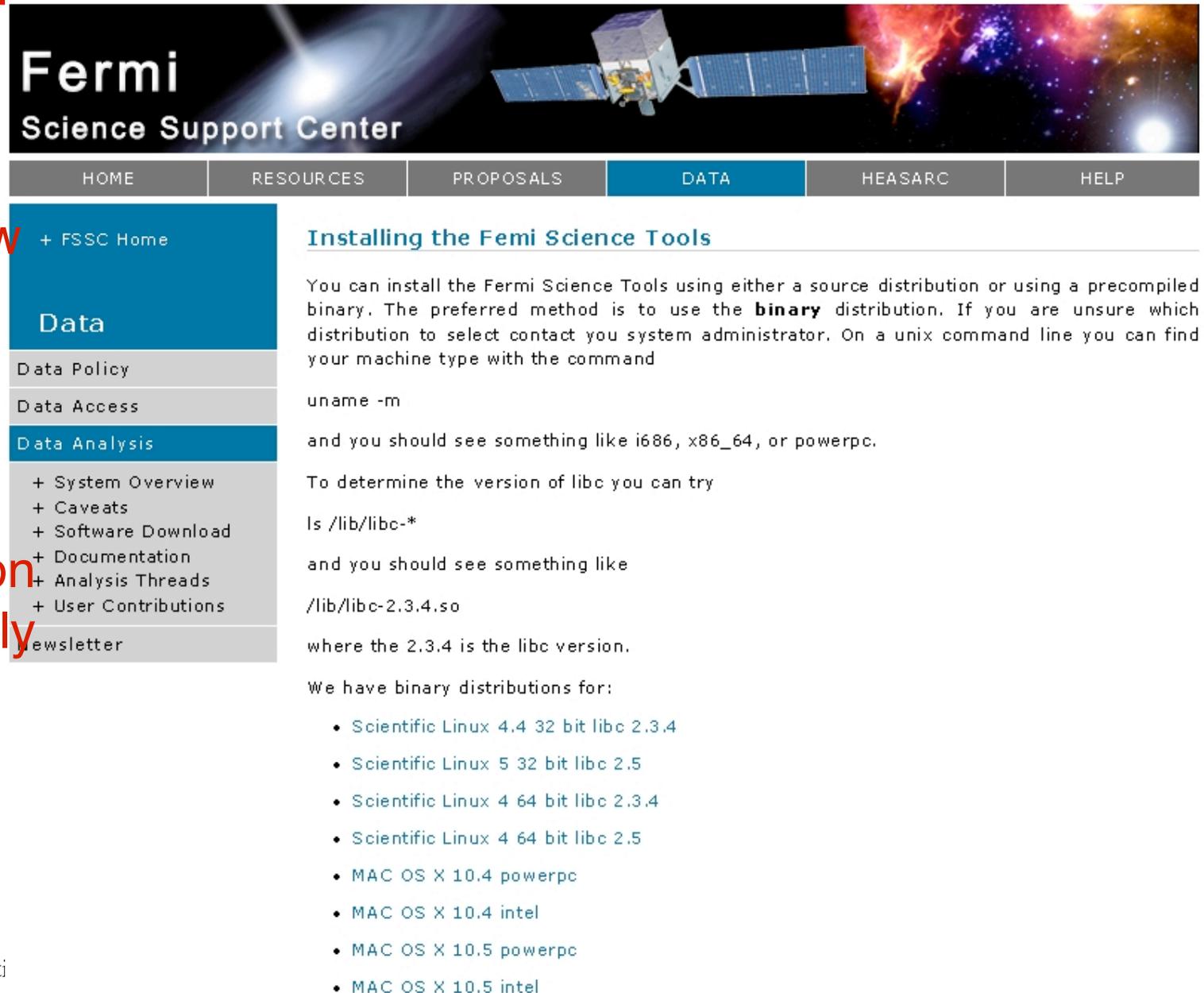
Science Tools Release



- Science tools posted for public download!
- Binary distributions → simple installation
 - 8 platforms currently supported
- Documentation updated
 - SLAC analysis workbook migrated to SSC
 - Redacted, augmented for GI audience

The Science Tools are now posted for public download!

Hierarchical documentation set extensively updated.



Fermi Science Support Center

HOME RESOURCES PROPOSALS DATA HEASARC HELP

+ FSSC Home

Data

Data Policy

Data Access

Data Analysis

- + System Overview
- + Caveats
- + Software Download
- + Documentation
- + Analysis Threads
- + User Contributions

Newsletter

Installing the Femi Science Tools

You can install the Fermi Science Tools using either a source distribution or using a precompiled binary. The preferred method is to use the **binary** distribution. If you are unsure which distribution to select contact your system administrator. On a unix command line you can find your machine type with the command

```
uname -m
```

and you should see something like i686, x86_64, or powerpc.

To determine the version of libc you can try

```
ls /lib/libc-*
```

and you should see something like

```
/lib/libc-2.3.4.so
```

where the 2.3.4 is the libc version.

We have binary distributions for:

- Scientific Linux 4.4 32 bit libc 2.3.4
- Scientific Linux 5 32 bit libc 2.5
- Scientific Linux 4 64 bit libc 2.3.4
- Scientific Linux 4 64 bit libc 2.5
- MAC OS X 10.4 powerpc
- MAC OS X 10.4 intel
- MAC OS X 10.5 powerpc
- MAC OS X 10.5 intel

Science Tools include simulation tool; *gtobssim*. Proposers can simulate more realistic scenarios than w/web based tools, *e.g.* multiple point sources of differing intensities, spectra including backgrounds, mono-energetic sources, pulsed or transient sources.

```
<source library title="Example1">
  <source name="mysource" flux="0.005">
    <spectrum escale="MeV">
      <particle name="gamma">
        <power law emin="30.0" emax="200000." gamma="2"/>
      </particle>
      <celestial_dir ra="198" dec="67"/>
    </spectrum>
  </source>
  <source name="Galactic_diffuse">
    <spectrum escale="MeV">
      <SpectrumClass name="MapCube" params="18.58,GP_gamma.fits"/>
      <use_spectrum frame="galaxy"/>
    </spectrum>
  </source>
  <source name="Extragalactic_diffuse">
    <spectrum escale="MeV">
      <SpectrumClass name="Isotropic" params="10.7, 2.1, 20., 2e5"/>
      <use_spectrum frame="galaxy"/>
    </spectrum>
  </source>
</source_library>
```

```
% fhhelp gtobssim

NAME

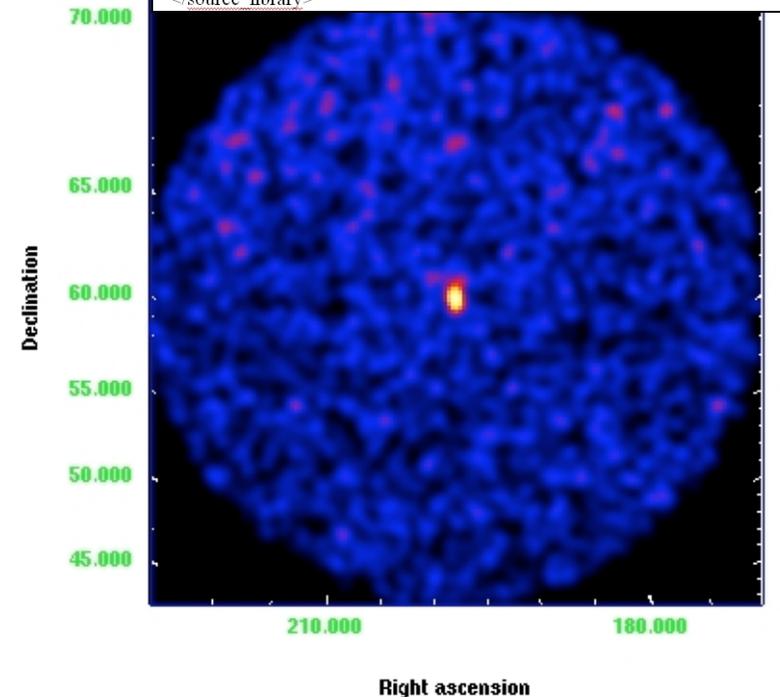
    gtobssim - Generate photon events from astrophysical sources
              and process those photons according to the specified
              instrument response functions.

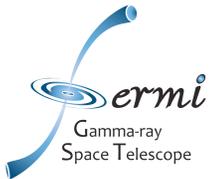
USAGE

    gtobssim infile srclist scfile evroot simtime startdate use_ac
              ra dec radius irfs seed

DESCRIPTION

    Gtobssim is a GLAST Science Tool that allows the user to simulate
    point and diffuse GLAST observations using a specific spectral shape
    for a selected region of the sky in GLAST survey and pointing
    modes. Its intended use includes observation and proposal planning, as
    well as assessing actual GLAST observations.
```





Fermi Users Group



Cycle-2 Planning

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Cycle-2 Plans



- \$8M available, anticipate ~100 programs
- Scope review for up to ~300 proposals, ~50 reviewers, 6 committees
- Contract w/NRESS negotiated by NASA HQ
 - Discussions w/FSSC
- Review: local venue, quick access to BWI
- Proposal to start plenary evening of day N
 - Splinter committees Day N+1, N+2
 - Executive session day N+2 (conceivably evening of day N+2)

Cycle-2: A few Details



- Stage 1 proposal form requires proposer supplied budget cap, + absolute ceilings (\$100k & \$200k) imposed by NRA
- Review committees will see the caps
 - Whited out in cycle 1
- Technical reviews
 - FSSC will screen proposals
 - Solicit technical assessment from instrument teams where warranted
 - Minimal # of eyes, require consent agreements

Submitting a proposal

- 4- / 6-page limits for regular/large proposals
 - Science justification as PDF attachment
 - 1-page technical appendix for joint NOAO or NRAO programs
- Stage-2 proposal managed by NRESS
 - Must use NSPIRES facility
- Minimalist approach to stage-2 review
 - Complete by Aug 2009

Submitting a proposal



Astrophysics Research Knowledgebase ARK
NASA's HEASARC: Archive

ARK HOME | FAQ | HELP | EDIT PROFILE | CHANGE PASSWORD | My ARK | L

Verify | Save | Reload | LaTeX | PostScript | PDF | Add Targets | Feedback

Proposal for Fermi Guest Investigator AO-2

There are only **37** days remaining until the submission deadline at **4:30pm EST** on **2009-03-06**.

Need help? All field labels link to a quick reference with additional information on each field in the form.

Click on the green triangles to the left of the section headers to toggle the display of individual sections of the form.

▼ Cover Page

Proposal Title

Abstract

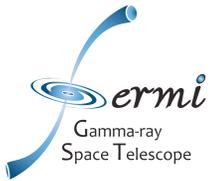
Subject Category

Proposal Type

Observation Type

Joint Proposal?

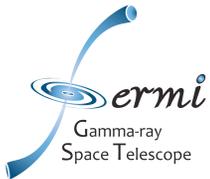
ARK/RPS page for Fermi Cycle-2 program. Straight forward, internally documented web form. Sub-menus for NOAO, NRAO requests. File input accommodated for large target lists. Verification feature & upload function.



Cycle-1 Multi-Year Programs



- NRA requires progress report to be evaluated in conjunction w/stage-I review
 - RPS modified to accommodate
 - PIs notified
- Level of scrutiny likely to be modest?

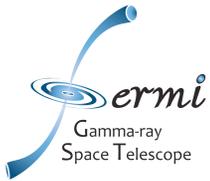


Fermi Users Group



Proposer Workshops

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Proposer Workshops



- ~1/2 day workshops, 4 regional venues
- Review of mission status, early science
- NRA and proposal submission details
- Online support tools & materials
- Discussion of bright source list, science tools
- 2 or 3 science talks from local institutions

Future Workshops



- Detailed discussion of data analysis
- Hands on tutorials on Science Tools
- Use real data, real science!
- From past experience: more than ~5:1 participant:staff ratio becomes problematic
 - Query community
 - Multiple venues