

# Science Tools Update, September 30, 2008

## Science Tools Working Group

The current release version of the Science Tools remains **v9r7p1**.

**Data products:** The planned additions to **FT2 contents** are [posted](#). Warren mentioned today that starting as soon as today FT2 files with 1-second resolution would be available from the Data Catalog. These (or their close cousins) are produced in the L1 pipeline by ft2Util anyway - to feed Gleam spacecraft and attitude information, and turning them into FT2 files was a small additional step. Note - you don't need these at all for your routine analyses but they might be interesting to look at, especially for GRB-type impulsive sources.

## Databases and related utilities

No news. Tony made a new release of the Astro Server at SLAC last week; if you had used the Astro Server by that time, you already know about this. The new release fixes bugs in the FITS headers and GTIs of the output. Tony has written a [FAQ](#).

## Likelihood analysis

*From Jim:*

- I implemented the photon and energy flux and error calculations that Jean requested and that were described in my talk at the Monday session of the Collaboration meeting. This is in Likelihood v13r18, pyLikelihood v1r6, and ST HEAD1.686. There is [documentation](#) on confluence
- For the DM group, I have implemented a class that will handle multiple likelihood analyses for different regions of the sky simultaneously, tying together the spectral parameters that are expected to be same, i.e., the parameters describing with the dark matter spectrum. The basic idea was [outlined by Jan Conrad](#) during the DM splinter meeting. This is in Likelihood v13r18p3, pyLikelihood v1r7, and ST LATEST1.2465

## GRB tools

No news

## Pulsar tools

*From Masa:* "As reported last Friday [in an e-mail to some known users], **gtbary** (v5) has three more parameters for the future implementation of geocentric option. Also, the other pulsar tools that read event files (**gtpphase** v7r1, **gtophase** v7r1, **gtpsearch** v10r1, and **gtpspec** v10r1) no longer accept an event file that has already been processed by **gtbary**, in order to mitigate a potential pitfall in a tempo-spectral analysis."

## Observation simulation

No news

## User interface and infrastructure (& utilities)

No news

## Source Catalog

Last week's discussion was about the August source list and associations. Will meet this week.