

Science Tools Update, August 11, 2009

Science Tools Working Group

[Updated on August 12, 2009]

The current release of the Science Tools is **v9r15p4**. It is not a major update relative to v9r15p3, obviously; the driver for the update was fixing a bug in the UpperLimits class in PyLikelihood.

The FSSC has wrapped up testing of the subset of v9r15p2 that they will support for public users of the LAT data. *From Dave Davis:* "One issue that is still hanging around is that the fix to the f2c headers is still different for the SLAC and FSSC version. Our problem is that the SLAC fix fails on 64 bit systems. We still need to try and merge the two fixes."

Data products: Studies in C&A on Pass 7.1 are continuing.

Databases and related utilities

No news

Likelihood analysis

From Jim:

- I've updated the CompositeLikelihood interface so that it correctly displays the errors for each of the fit parameters. I also added a function that users can use to have Minuit or NewMinuit compute minos errors for any parameter. This differs from the function that does this in the standard pyLikelihood classes since CompositeLikelihood groups parameters from the common source components in a special way. pyLikelihood v1r16p0
- Johann has updated the DMFitFunction spectral model to enable upper limit calculations with CompositeLikelihood. Likelihood v15r4p0.

These updates are not in the current release of Science Tools.

GRB tools

The current release contains a fix for **gtrspgen**. According to the release notes for the rspgen package James has corrected a "bug that caused the last interval in the spacecraft file to be silently discarded."

Pulsar tools

From Masa: "Nothing in the pulsar tools development. We've been dealing with users' queries on pulsar- and timing-related issues."

Observation simulation

No news

User interface and infrastructure (& utilities)

No news

Source Catalog

The 11-month source list, potential improvements, and associations were topics last week.