Science Tools Update, December 8, 2009

Science Tools Working Group

The current release of the Science Tools is **v9r15p6**. A summary of the changes since v9r15p5 is here. You will notice a number of mostly-small changes that have been accumulating in HEAD builds, along with plenty of work by Jim on the IRF-handling infrastructure, including the (eventual) detailed calculation of exposures taking into account rate-dependent inefficiencies. Some of the other changes with the new release are described below.

Data products: No new news.

Databases and related utilities

No news

Likelihood analysis

From the Release Manager build information it looks like Jim has been working on SummedLikelihood in pyLikelihood

Josh Lande reports that with this release sourcelike compiles for the first time for the Linux builds in the Release Manager.

GRB tools

No news

Pulsar tools

Masa reports that there's no new news. He has prepared a technical description of the handling of timing parameters, for developers.

Observation simulation

Max Razzano has added binary modulation as an option in the Pulsar source. Luis Reyes has implemented an updated version of eblAtten - I'm not sure what is new about it. Jim has modified SimpleTransient to allow photon index -1. This release has Jim's reimplementation of GaussianSource from Josh.

User interface and infrastructure (& utilities)

See mention of IRF work at the top of the report

Source Catalog

The 11-month source list and the converging on the year-1 catalog paper remain the current topics.