Science Tools Update, May 12, 2009

Science Tools Working Group

The current release of the Science Tools is now **v9r12**. Here are the package differences from v9r11. As Jim summarizes it, the new release includes updates to the pulsar tools, and the new P6_V4 & P6_V5 IRFs, and the corrected energy dispersions for P6_V[3-5]. See Riccardo's Summary of response function sets.

Note that the P6_V4 and P6_V5 IRFs have the azimuthal variation of the effective area; Jim reminds me that **gtltcube** can now tabulate the azimuthal dependence of the livetime accumulation with the command-line parameter phibins, which defaults to 0. I'm not aware of studies yet of the effect of accounting for azimuthal variations on the likelihood analysis of sources.

Eric W. reports that the FSSC is about to start porting **v9r12** to the build system at the FSSC.

Data products: Reprocessing for Pass 7 is still getting into gear, now anticipated for later this week. The actual reprocessing should take only a day or so.

Databases and related utilities

No news

Likelihood analysis

Jim reports that the main update to Likelihood in v9r12 is the switch to absolute tolerances as the default way to specify convergence tolerances.

GRB tools

No news

Pulsar tools

From Masa: "Nothing spectacular in the pulsar tools development. Some bugs and issues were resolved, then the pulsar tools packages were tagged. The new versions are all tested all right, according the Release Manager at SLAC, as a part of Science Tools v9r12. Also, I started working on improving their unit tests because some test conditions are too loose."

Observation simulation

No news

User interface and infrastructure (& utilities)

No new news

Source Catalog

Last week Andrea discussed the plans for the first LAT pulsar catalog and Jean described the development of the 9-month source list.