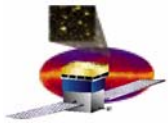**Gamma-ray Large Area Space Telescope**

GLAST Large Area Telescope

WBS 4.1.D SAS
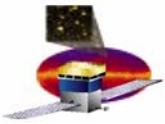## GSFC Monthly Review

Period Ending: Feb 2005

Richard Dubois
LAT SAS Subsystem Manager
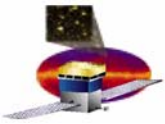
Jan Accomplishments

- **Flight Integration Support**
  - **Released bulk of code on Dec 12 – applying tweaks**
    - **Upgrade to Root 4 – large file support**
    - **Upgrade to GEANT4 6.2 – to keep up with releases**
  - **Pipeline handled Xmas-break data fine**
    - **Many improvements to web front end**
    - **Tweaking perl back end**
  - **Still waiting for "real data" to start CCB process; we're poised!**
- **User Workbook going great guns**
  - **More polishing on the New User introduction**
- **data handling tools**
  - **Held workshop at SLAC**
  - **Tony Johnson (SLAC) has taken over managing our data handling projects**
    - **First new system tests interface hit the street Jan 15, as promised.**
    - **Quickly improved the pipeline front end**
  - **J-P LeFèvre from Saclay has just arrived for 6-month sabbatical**
    - **Has java experience for data servers on 2 astro missions**
- **Decomplishments**
  - **Trying to replace s/w developer who left in December – 12 applications so far**
  - **Lost 2nd infrastructure position to budget cuts; looking at help from SLAC; ex-BABAR person.**
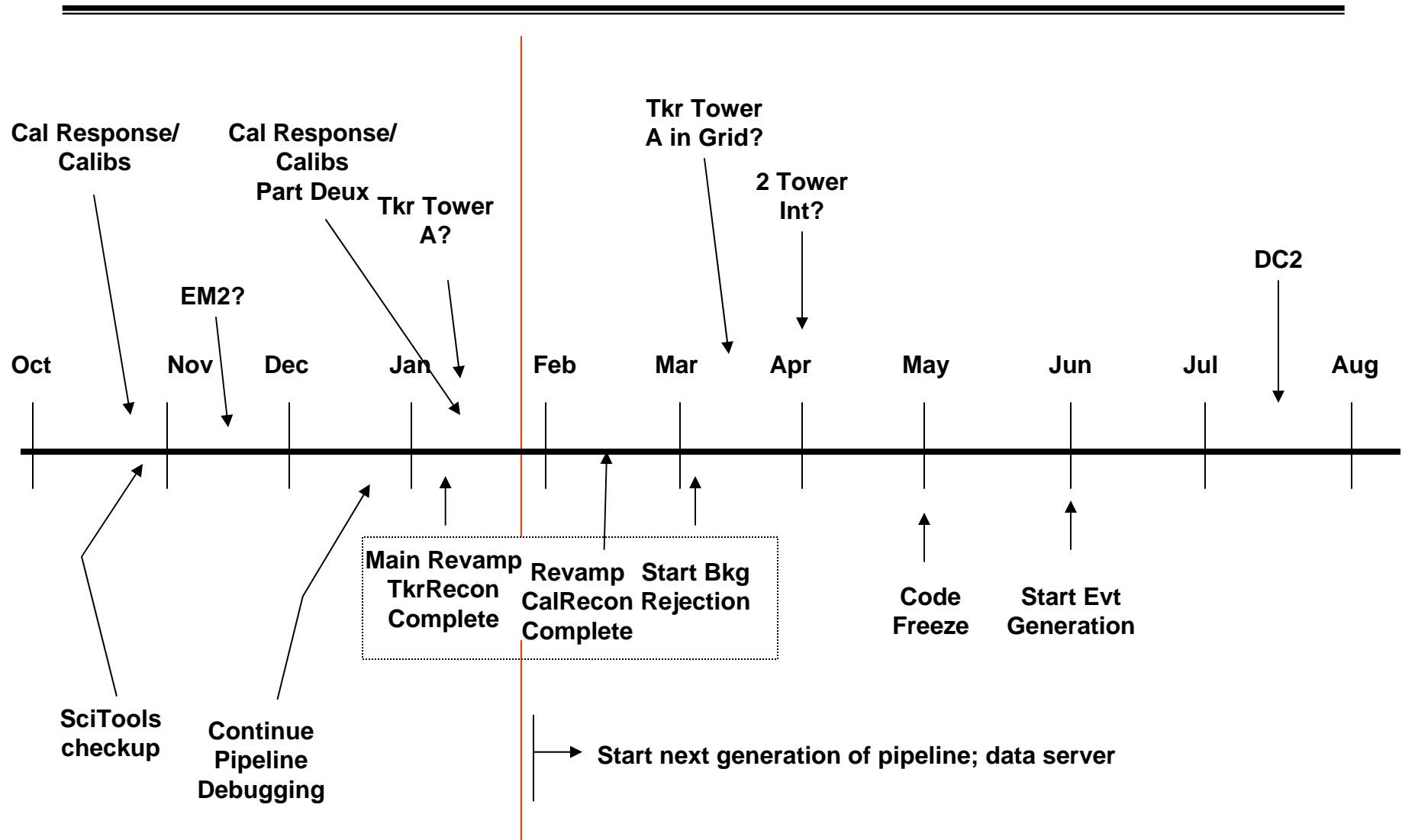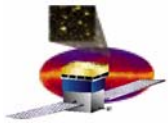
Upcoming for February

- **I&T deliverables**
  - **Keep working on TKR Tot**
  - **Keep working on more sophisticated CAL calibrations based on what's been learned during assembly at NRL**
- **Gino pipeline functioning**
  - **Keep testing and supporting it**
  - **Start assembling the next version – given input from workshop and experience from Gino**
- **TkrRecon upgrade**
  - **First major tag released 1/4**
  - **Ran 1M allGammas with pipeline. First look pretty good!**
  - **I&T now wants it, so we are tooling it up for them**
    - **Have to redo background rejection analysis, but not an issue for I&T**
- **CalRecon upgrade**
  - **TkrRecon finishing up**
  - **David Chamont (LLR/Paris) expects re-org by mid-Feb**
  - **"MIP-segment" finding ongoing at Montpellier**
  - **Energy corrections (low and high at LLR/Paris; Berrie Giebels, Philippe Bruel) – due early Feb**
  - **Response work should be done next week (peds, gains etc)**
- **Hire SciProg replacement**

Timeline

Cal Response/
Calibs

Cal Response/
Calibs
Part Deux

Tkr Tower
A?

Tkr Tower
A in Grid?

2 Tower
Int?

DC2

EM2?

Oct   Nov   Dec   Jan   Feb   Mar   Apr   May   Jun   Jul   Aug

Main Revamp
TkrRecon
Complete

Revamp   Start Bkg
CalRecon Rejection
Complete

Code
Freeze

Start Evt
Generation

SciTools
checkup

Continue
Pipeline
Debugging

Start next generation of pipeline; data server

Issues & Concerns

❑ **Thinking about DC2 – must juggle I&T support with DC**

schedule

   ❑ **Getting the background rejection done in a timely fashion**

      will be hard. May need to start it in parallel with CalRecon

      revamp