

New Integration Sequence

■ Installed tower

Numbers correspond to bay location



1 Tower
(Single bay, special grid)

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

2 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

4 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

6 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

8 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

10 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

12 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

14 Towers

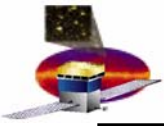
12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

16 Towers

12	13	14	15
8	9	10	11
4	5	6	7
0	1	2	3

LAT

For rationale see Martin Nordby's presentation at <http://www-glast.slac.stanford.edu/LAT-Details/Engineering%20Meetings/2005-01--LATIntSequenceChangeRev3.pdf>



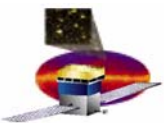
Some dates...

- **Data Taking of first tower (CAL+TKR+TEM+GEM)**
 - **Single bay grid**
 - Feb 15 to 23, 2005
 - **Flight grid**
 - Mar 21 to 28, 2005
- **Instrument Analysis Workshop @ SLAC**
 - **Date**
 - **During Collaboration week**
 - » either March 10 or 11 – Thursday or Friday



Instrument Analysis Workshop 3

- **Goal**
 - Hands-on workshop (ensure everybody knows how to get started)
 - Bring your laptop!
- **Program**
 - **The basics (few talks only)**
 - New code (TKR and/or CAL)
 - Trigger
 - Data Analysis Primer and Data Taking Plans
 - **Tutorials (a couple of hours)**
 - How to get the data
 - How to download code and make plots
 - How to filter events and use Event Display
 - How to correlate housekeeping with science data
 - **Results from analysis on real data**
 - Whoever wants to give a talk on real data please contact us



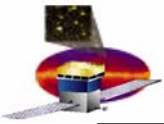
Preparations for workshop

- **Pipeline**
 - **Significant progress: we currently have a working pipeline**
 - Still some features to be implemented by SAS and I&T
 - » but we are confident we will get there !
 - We acquired experience with reprocessing
 - » Look from the positive side, this is great news!
- **Reconstruction code**
 - **New CAL Recon**
 - End of this week should have a version that works with calibGenCAL v3
 - » Needed for calibrations using charge injection
 - **New TKR Recon**
 - Many people running it (including I&T)
 - » Need to ensure uniform numbering scheme for all I&T data
 - » Makes it easier to maintain only the new version
 - Soon to be available
- **Analysis code examples**
 - **Need a lot of improvements**
 - Shouldn't we have root style file for GLAST
- **Housekeeping**
 - **I&T working ISOC to make sure we have data into a database**
 - **I&T already retrieves and correlates fake data from DB**
 - **Need to work on friendly user interface**
- **MC runs**
 - **I&T will request MC runs with new tag for single tower**



Executive Summary: Code Release

- Using em v3r0407p3
 - There are many bugs that are being worked out
- Coming this week em v3r0407pX
 - This will be our baseline
 - See next slides
- Expect maybe 2 more versions (TBR)
 - One with new Cal Recon code
 - Most likely to be used for data taken **outside** flight grid
 - One with new Tkr Recon code and new Cal Recon
 - Most likely to be used for data taken **inside** flight grid



Shopping list for the baseline...

- **Currently running Root V4 based EngineeringModel v3r0407p3:**
 - **Optimized code problem**
 - **Error bits and flags not handled correctly**
- **Next EM release (p6) will have(?):**
 - **Error bits and event flag bug fixes**
 - **New trigger bit ordering (a la GEM)**
 - **Optimized code fix**
- **After that the next EM release (pX) will have:**
 - **Correct Run ID in digi**
 - **Correct skipping of flushed old events in LDF file?**
- **This (pX) will be our baseline EM:**
 - **Should be in this week because**
 - **there are two major upgrades – see next page**



Major Changes prior to Integrated Tower

- **Two important releases:**
 - **New CalRecon**
 - New calibration types
 - Compatible with v3 of CalibGenCal
 - Will be released on Friday?
 - SVAC will need a test EM release right away:
 - » Would like to put it into the pipeline as soon as reasonably possible (1 week from release)
 - **New CalRecon and New TkrRecon**
 - Complete rewrite of tracking code
 - Would like a release for testing within 2 weeks
 - » Goes into the pipeline preferably after CalRecon.
 - » But order may switch if necessary
- **Better to take the pain right now than later during Integration!**
 - No pain, no gain :-)