Flight I&T Support Update

- **EngineeringModel package and LDF**
  - Current tag v3r0402p18
  - System tests in progress v3r0402p18 - Julie
  - Still on the hook for a LDF unit test
    - Sorting CAL and TKR readouts is now done
    - Preliminary version is included in the latest LatIntegration tag.

- **ROOT 4.00/08 has been released.**
  - After testing – we will be moving to it
    - Should support > 2 GB files
EngineeringModel stuff contd.

- New Online LDF library v05-01-00
  - Now available – upgrade in progress
- GEM data needs to be made available
  - I&T requests a list of all data not yet available in ROOT
  - Need to consider how to provide this data (and diagnostics) in ROOT. Do we use the Online LDF routines or unpack and create our own more user-friendly access?
- I&T requests storing LDF version in ROOT header
Calorimeter: Sasha & Zach

- No specific input – but certainly much work will be reported in the CAL report.

- Questions from our friends in I&T
  - Will CAL give us dead and noisy channels as part of SAS calibration algorithms? (yes, I do know you can produce them online, but you can also produce them offline)
  - Why do we have a light asymmetry file in the CalCalibGen package that is not being used (I think)? Are there plans to read it in into Recon?
  - The previous questions raise an issue: How do we formally deliver algs to I&T? LDF reader and em releases? Does SAS have unit tests for all of them? I believe the answer is yes except for calib algs. But do we have a process for delivery? Requiring passing system tests?
Tracker – Leon & Tracy

- Tracy continues to convert Hiro’s alignment algorithm into a Gaudi algorithm
  - No longer critical path – but Tracy will get this to a stable configuration before moving on to other things

- Leon has a new ROOT macro to compare cluster width vs track angle – now ready to compare MC to real data.

- ToT calibration & Gleam
  - 5x886K actual ToT calibration numbers will be available soon – Leon is working on algorithms to use them.
Various Calibration Stuff

- Small upgrades to CalibData package to make it possible for users to retrieve validity interval for a calibration
- Fetching of calibrations based on timestamp in event in progress, close to ready.
Pipeline

- Dan tagged a working version of the software 'v1'. Working on providing more flexible directory structure report at the behest of I&T (both online, and Eduardo's groups need a different structure than I created). Plan to have it finished by Monday am when we will attempt to configure their pipeline again.

- Had a constructive meeting with I&T last week showing off the new web interface and demonstrating job submission.
A public service announcement
Brought to you by I&T

- LDF reader, Calib Algs, FRED, EM release, all due a month before first flight tower arrives (mid Sep). We really need a month to test

- Geometry documentation and calibration algs docs. I&T produced templates with info that needs to be reviewed and updated prior to integration. Need help!