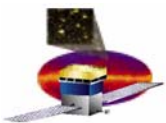


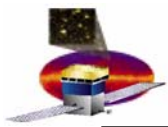
Highlights of IA Activities

- **I&T Readiness Review (Nov 18)**
 - Went fine, thanks...
 - We are ramping up to receive flight hardware.
 - Expect data taking to begin early January !
- **SAS Code Review for I&T**
 - **Dry Run (Dec 10)**
 - Test code delivery scheme
 - Identify issues
 - Revisit status of code
 - Establish delivery deadlines
 - **For real (Jan 7 - TBR)**
 - Show that we are ready to go



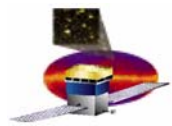
IA meeting Friday Nov 19 (1 of 2)

- **I&T Land**
 - **Established main data taking configuration for 1 and 2 towers**
 - **23 hours** of cosmic rays with tower inside flight grid
 - » CAL 4 range readout, autorange, high energy muon gain., FLE/FHE disabled
 - » TKR nominal settings, DAC $\frac{1}{4}$ MIP
 - » TEM diagnostics enabled, zero suppression ON
 - **1 hours** of cosmic rays with tower inside flight grid
 - » Same as above but zero suppression OFF
 - **4 hours** of cosmic rays with tower inside flight grid
 - » Flight settings
 - **Availability for testing time is becoming an issue: may change from total of 24 h to 16 h of cosmic rays per tower**
 - Preliminary estimates suggest this is not a problem
 - CAL and TKR were asked provide feedback for next meeting (Dec 3)
 - **Dec 3 Meeting: Agenda**
 - Preliminary results from CAL and TKR flight hardware data
 - What are the data analysis tasks we want to do during I&T?
 - How to prioritize these data analysis tasks?
 - When and how do the results from our work propagate into the SAS code?

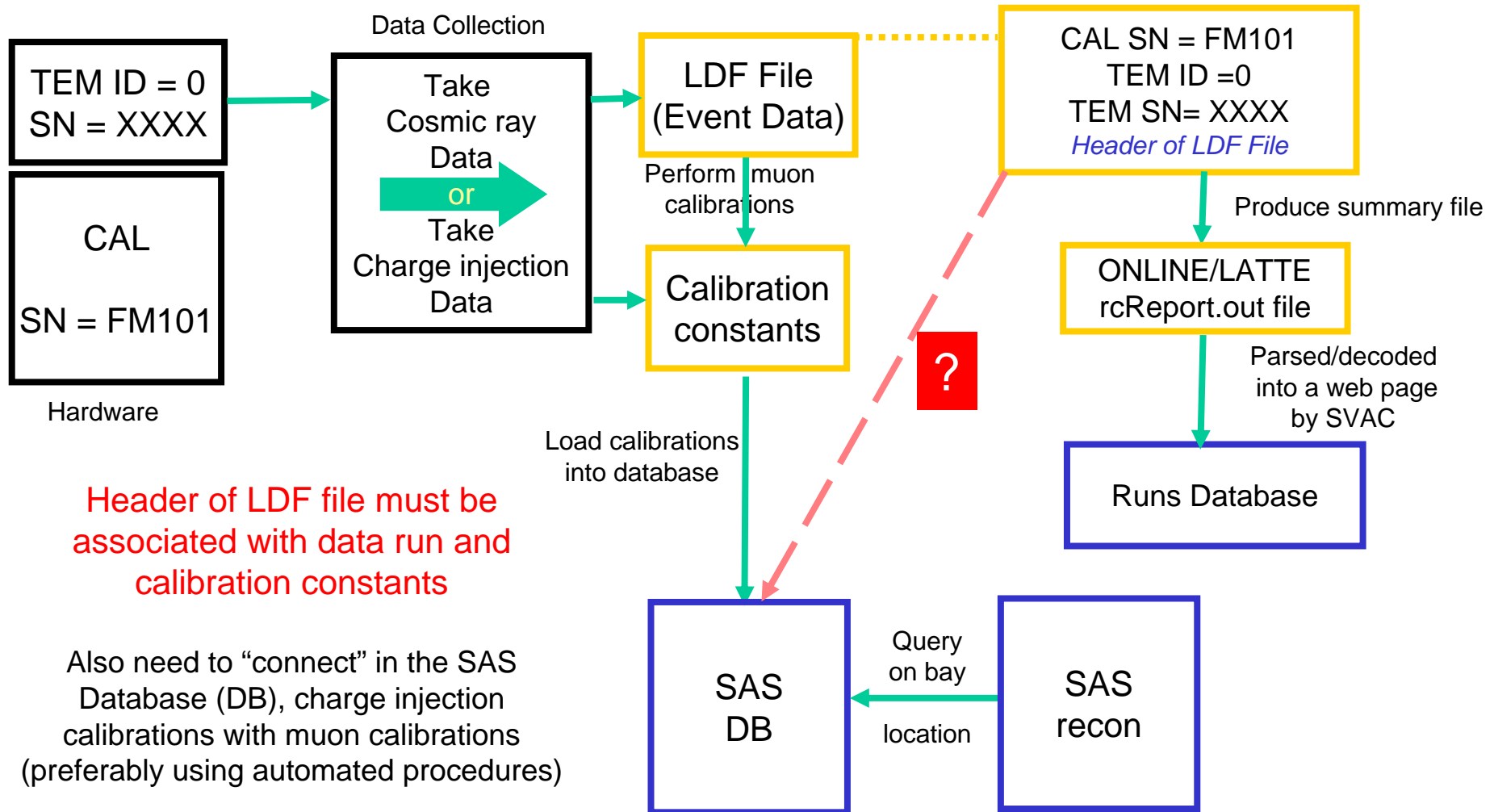


IA meeting Friday Nov 19 (2 of 2)

- **SAS Land (from I&T's myopic view)**
 - **Monte Carlo generation (surface muon requests from I&T)**
 - 2 Million triggered events for 2 tower geometry
 - 1 Million triggered events for 1 tower geometry
 - **SAS Pipeline**
 - Working to optimize throughput
 - **Serial Number issue (being actively discussed)**
 - Recon does not query on serial number but on tower location
 - » LAT hardware configuration does not change in orbit...
 - Recon **may** have to be adapted (TBR)
 - » to compare calibrations made inside flight grid (I&T) with those outside (from subsystems)
 - » Need to search calibrations by serial number (TBR)
 - » We are currently working on...*pain versus gain*.



Serial Number Problem Revisited



Header of LDF file must be associated with data run and calibration constants

Also need to “connect” in the SAS Database (DB), charge injection calibrations with muon calibrations (preferably using automated procedures)

TEM ID is what recon needs to identify test bay location
TEM ID = 0 in default for single grid (subsystem tests)
TEM ID =0 corresponds to a unique location in the flight grid (I&T)