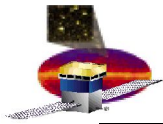# SVAC And Calibrations Of The Full LAT

Eduardo do Couto e Silva and Anders W. Borgland

Science
Verification,
Analysis and
Calibrations

SVAC Until NRL

GLAST LAT Project

I&T Summary Plan

LAT Planning Meeting 9/21/2005

LAT Final Test Prep Schedule
Rev. 9/13/05 L.Wai

Detector Modules Installation	9/12-9/17	9/19-9/24	9/26-10/1	10/3-10/7	10/10-10/15	10/17-10/22	10/24-10/29	10/31-11/5	11/7-11/12
Receive/prep modules for 4 bays	▓	▓							
Install bays 10,11,14,15		▓	▓						
12-bay LAT CPT (TKR & CAL)				▓					
Receive/prep modules for 4 bays				▓	▓				
Install bays 6,7,2,3					▓	▓			
16-bay LAT CPT (TKR & CAL)							▓		
ACD/GASU/PDU Integration							▓		
1 → LATTE4 LAT CPT, trigger, SVAC								▓	▓

LICOS/FSW Installation	10/31-11/5	11/7-11/12	11/14-11/19	11/21-11/26	11/28-12/3	12/5-12/10	12/12-12/17		
Mobile rack assembly & test	▓	▓							
2 → FSW EGSE installation	▓	▓							
LICOS installation			▓						
LICOS LAT CPT, SVAC, E2E				▓	▓				

Pre-Ship Test			12/19-12/24	12/26-12/31	1/2-1/7	1/9-1/14	1/16-1/21	1/23-1/28	
Flight SIU installation			▓						
Cross-LAT plate installation			▓						
Light-tight tests				▓					
3 → LICOS LAT CPT, SVAC, E2E				▓	▓				
Pre-Ship Review						▓			
Ship to NRL							▓		
Post-Ship Test								▓	
Post-Ship Review								▓	

4.1.9 - Integration and Test   2
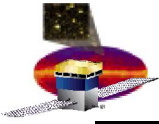
SVAC Until NRL

- **Step1:** LATTE 4 LAT CPT, trigger timing, **calibrations:**
  - **10/31 - 11/12**
  - **Topic for today!**
- **Step 2:** SVAC (pipeline) must be able to handle LICOS and FSW data products and procedures as they come along.
- **Step 3:** LICOS LAT CPT, **SVAC**
  - **11/28 – 12/17**
  - **Must define a muon run:**
    - **We know FSW/Online priority is on charge injection at this stage.**
- **Step 4:** LICOS LAT CPT, **SVAC E2E:**
  - **12/26 - 1/14**
  - **Working on updating the plan:**
    - **LAT-MD-00575**
  - **Will be presented in a later meeting.**

Calibrations Of The Full LAT Under LATTE 4

- **Calibrations include certain SVAC runs!**
  - **B13 (15 min)**
  - **B10 (15h)**
- We also want:
  - **B2 (4h) – Flight mode**
- CAL and TKR calibrations should be like for 8 towers.
- ACD is part of SVAC run configuration in the Matrix:
  - **ACD will not be in the trigger!**
  - **We will have no ROIs!**
  - **Will use the ACD configured as delivered:**
    - **Nominal values for thresholds etc**
  - **Only explicit ACD threshold in the Matrix is the CNO threshold:**
    - **Lester has updated it from 1 to 7.7 MIPs (min value)**
- ACD offline calibration does not require any additional data beyond the usual B13, B10 and B2 runs.
- CalibGenACD:
  - **Offline code for ACD calibrations - Under development!**