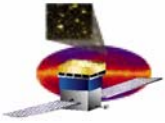


## GLAST LAT System Engineering

LAT Test Planning Meeting  
Tests for 16 Tower and ACD  
Integration

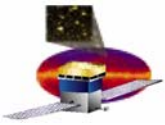
*Pat Hascall*  
*SLAC*  
*phascall@slac.stanford.edu*  
*(650) 926-4266*



# Goals

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- ❑ Discuss requirements for testing to be performed through 16 tower and ACD installation
- ❑ Decide on the baseline plan that meets those requirements



# Test Overview

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## □ Summary of required tests

### - Tower tests

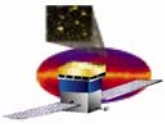
- Single bay LPT or CPT at installation (may be grouped, optional, may be replaced with a Multibay CPT)
- Multibay CPT required (including register tests)
- Time-in Tower required
- TE702 and TE704 required

### - ACD tests required

- CPT
- Time-in ACD

### - SVAC tests required

- Calibrate Calorimeter
- Calibrate Tracker
- Calibrate ACD
- Muon runs



# Proposed Test Sequence Discussion

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- LPT/CPT to verify installation
  - CPT or LPT?
    - No strong time advantage to LPT
  - How often? Two ideas have been discussed:
    - LPT Every 2 bays (10,12,14)
    - CPT at 12 towers
- Timing in bays
  - Before or after ACD installation?
    - Before gives us a baseline that matches the first 8
    - After gives us a timing parameter set for the whole LAT, but uses a new unproven test methodology and needs timing tests with the ACD in the tent
- SVAC
  - Perform after ACD installation
  - Short muon collection at 16 towers before ACD is installed to confirm LAT operations
    - Cal or tracker for last 8 towers not calibrated, first 2 towers have new TPS
      - how do we handle this?