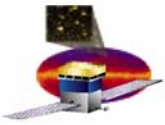


# GLAST Large Area Telescope: LAT System Engineering

Pat Hascall  
SLAC  
System Engineering Manager

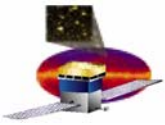
hascallp@slac.stanford.edu  
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# Topics

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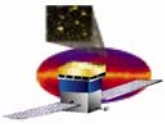
- **Meeting goals**
  - Review Tracker test matrix to assess and capture implementation issues
  - Review strategy for multi tower CPT and LPT to address likely need to reduce test time
  - Review discussion topics from test cross reference matrix and develop plan to close outstanding issues
- **Team Goals**
  - Define test requirements necessary through December
    - Tracker and Cal post delivery tests
    - Cal tests post integration with TEM and TEM/PS
    - Tower integration tests
    - Multi tower tests (without 'final' flight software)
    - Third layer boxes tests as necessary
  - Testing with next delivery of flight software, all third layer boxes and ACD will be defined in the next phases



# Test Cross-Reference Matrix Issues

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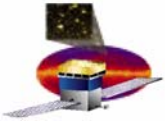
- The timing in tests are covered by the trigger test suite
  - info only
- The TOT testing is done in TE206 Readout sequence with charge injection scan. May want to split into another test to simplify picking tests for LPT
  - Larry to assess and provide recommendation
- Do we need any of the FSW tests?
  - Larry, Pat and Ric to assess and provide recommendation
- Need to call out ELX EM box integration tests the first time they are used (e.g. first time EM GASU is used, should run full suite of GASU integration tests)
  - Pat to correct matrix



# Test Cross-Reference Matrix Issues (Contd)

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- There may be analytical differences based on how the data is taken (cal only or cal and tracker for the same test)
  - Larry, Pat and Eduardo to assess and provide recommendation
- Need to correlate test phases along the top with those in the assembly plan - some are changed
  - Pat to correct matrix
- Need to address redundancy
  - Pat and Larry to assess and provide recommendation



## For Next Week

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- Hiro to present cut at LPT for the Tracker
- Larry to present degree of parallelism achievable for tracker testing
- Eduardo to check SVAC plan and reconcile requirements for two tower tests