

GLAST Calorimeter

*LAT F2F Meeting
16 Feb 2005*

Subsystem Mgrs F2F Meeting Calorimeter Subsystem

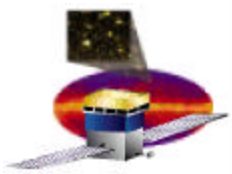
16 Feb 2005

W. Neil Johnson

Naval Research Lab

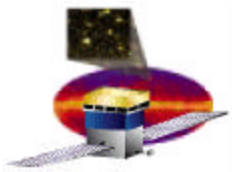
neil.johnson@nrl.navy.mil





- ❑ **CsI Crystals – Complete**
 - Swedish Consortium delivered high quality crystals.
- ❑ **Crystal Detector Element (CDE) Manufacturing - Complete**
 - Swales Aerospace has provided high quality CDEs on schedule and well under budget. Great job!
- ❑ **Composite Structures - Complete**
 - French hardware contribution completed. IN2P3 / LLR Ecole Polytechnique has done an excellent job in supporting LAT.
- ❑ **Analog Front End Electronics (AFEE)**
 - All boards have been manufactured and tested
 - Last 8 boards are currently in conformal coating.
- ❑ **PreElectronic Modules (PEMs)**
 - 16 PEMs have been assembled and tested. 2 more will be built for ground testing.
- ❑ **CAL Modules**
 - 13 modules have been completely assembled.
 - 7 of these have completed all environmental testing and calibration
 - 5 of these have been delivered to LAT I&T at SLAC.





GLAST Calorimeter

Calorimeter Assembly Flow and Build Status

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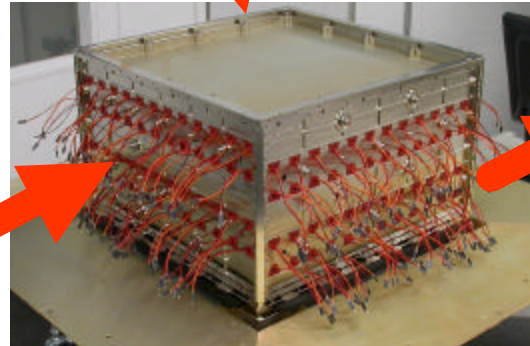
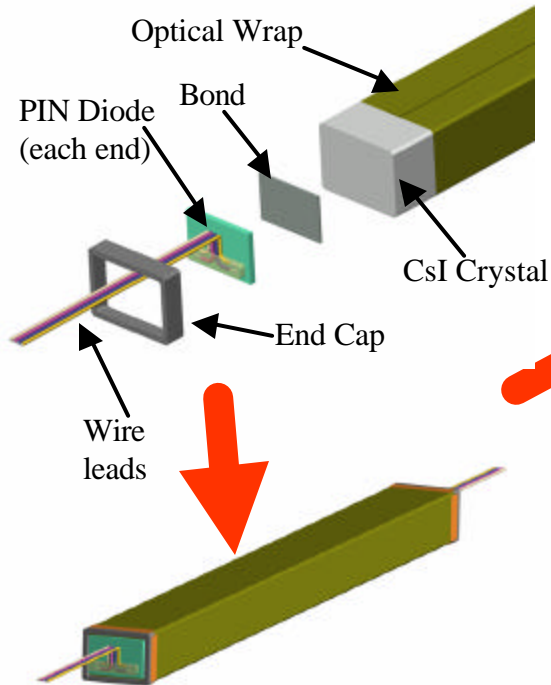
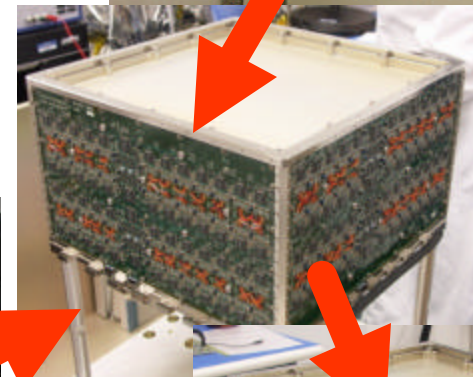
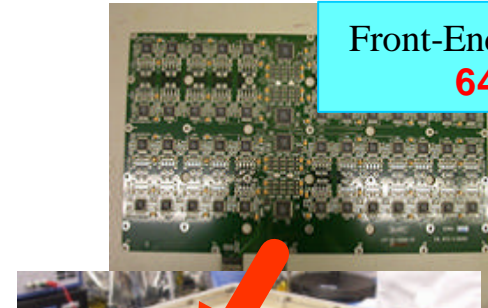
Dual PIN Diodes
4800 / 3072

CsI Crystals
1755 / 1536

Mechanical Structure
18 / 16

Front-End Electronics
64 / 64

Crystal Detector Element
(CDE) Assembly
1755 / 1536



PreElectronics Module (PEM)
16 / 16

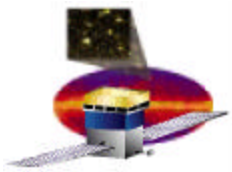
complete

required for flight

5 Modules Delivered to LAT I&T

Module Assembly & Test
7 / 16

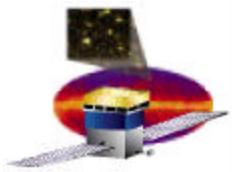




EM2 TEM/TPS Plan

	EM2 TEM S/N	EM2 TPS S/N	Scheduled Integration Date	Expected Return from SLAC	Status	Comment
FM11 Assembly (113)	FM14	FM2	02/07/05	01/20/05	done	First Use of EM2 TEM and TPS
FM12 Assembly (114)	FM9	FM3	02/14/05	01/20/05	ready	First Use of EM2 TEM with TPS returned from FM103
FM13 Assembly (115)	FM2	FM9	02/22/05	02/16/05		Reuse of TEM/TPS from FM104 (flight TEM install - FMA)
FM14 Assembly (116)	FM7	FM7	03/01/05	02/25/05		Resue of TEM/TPS from FM106 (extraction before flight available)
FM15 Assembly (117)	FM10	FM10	03/08/05	02/25/05		Reuse of TEM/TPS from FM107 (extraction before flight available)
FM16 Assembly (118)	FM4	FM4	03/15/05	???		Reuse of TEM/TPS from FM105 (flight TEM install - FMB)





CAL Module Deliveries

December '04	FM 101	✓
January '05	FM 102 - 105	✓
February '05	FM 106 - 107	Ship 2/22/05
March '05	FM 108 - 110	
April '05	FM 111 - 114	
May '05	FM 115 - 117	
June '05	FM118	

□ Issues

- Restart of TVAC has slipped about 2 weeks.
- TVAC support during LAT Collaboration meeting

