

GLAST Calorimeter

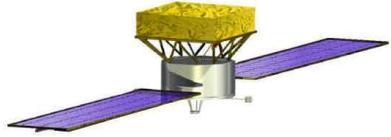
*Video Conference
1 April 1999*

GLAST Calorimeter Status 1 April 1999

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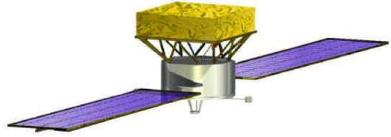
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Procurement Status

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- ❑ PIN Photodiodes - Hamamatsu
 - All 200 PIN diodes arrived at NRL on 2/19/99. 50 additional are available but have not been ordered.
 - Acceptance testing completed - no rejects.
- ❑ CsI Crystals - Ukraine
 - Received 4 31-cm crystals, 2 40-cm crystals of 2/2/99.
 - Shipped 1 40-cm crystal to Patrick Fleury.
 - All other crystals (46 31-cm and 8 40-cm) were delivered to the State Dept for shipping on 3/17. Should arrive NRL soon.
 - Ukrainian visit to NRL scheduled for 4/7/99 after arrival of crystals.
- ❑ CsI Crystals - Crismatec
 - First 4 crystals arrived at NRL on 3/24/99, currently in testing
 - Next 16 crystals to ship on 4/14/99
 - Final 20 crystals to shi[of 4/30/99





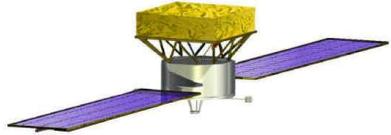
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Beam Test Calorimeter

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- ❑ Machined parts for compression cell have been received at Hytec.
 - Review of assembly process on 3/24 identified one modification for access to Nanonics connector jackscrews.
 - Test assembly using dummy logs to begin soon.
- ❑ Procedure for processing of CsI crystals and mounting of PINs is being tested.
- ❑ GSFC ASIC testing complete - chip performance is very good. Dedicated run at SuperTex (Orbit) for beam test parts was submitted 3/25/99
- ❑ Prototype front end PCB and controller PCB have been received and are ready for assembly.
- ❑ Beamtest calorimeter electronics configuration was presented and discussed during mechanical meeting at Hytec.
 - Proposed slight modifications to test support stand.
 - Understanding/discussion of DAQ arrangement/ requirements is still needed.
 - Calorimeter will provide its own power and filtering, isolated from DAQ





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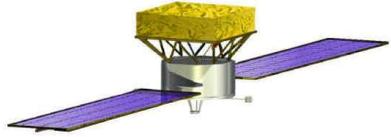
Calorimeter Schedule

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Critical path to Beam Test is through ASIC fabrication and test. (Two months behind original schedule due mostly to Orbit problems.)

- Reliable ASIC delivery (we hope) will be provided by dedicated production fabrication run at SuperTex
- Mounting ASICs on FEE PCB begins 6/21/99
- Assembling FEE boards and detectors begins 7/12/99
- I&T begins 7/26/99
- Pack and ship to SLAC, arriving 9/15/99





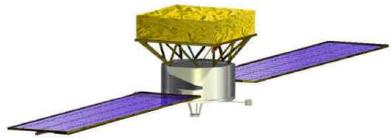
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French Activities

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- ❑ Fleury's Mechanical Design
 - NRL shipped one Ukrainian CsI crystal, 40 cm long
 - Patrick has ordered 3 logs from Crismatec, 37 x 3 x 2.3 cm
 - successful molding with Carbon fibers instead of glass fibers; fabricating the mold and 3 mandrills at the dimensions for the vibration tests, hopefully in May.
- ❑ Simulations
 - Berrie and Arache are working to get GlastSim working at CdF on Win-NT
 - Focus to be on SuperGlast
- ❑ Tests at CERN
 - Arache and Alain have spent a week at Santa Cruz to get familiar with the tracker prototype
 - Current plan is to use BT '97 version of the calorimeter.

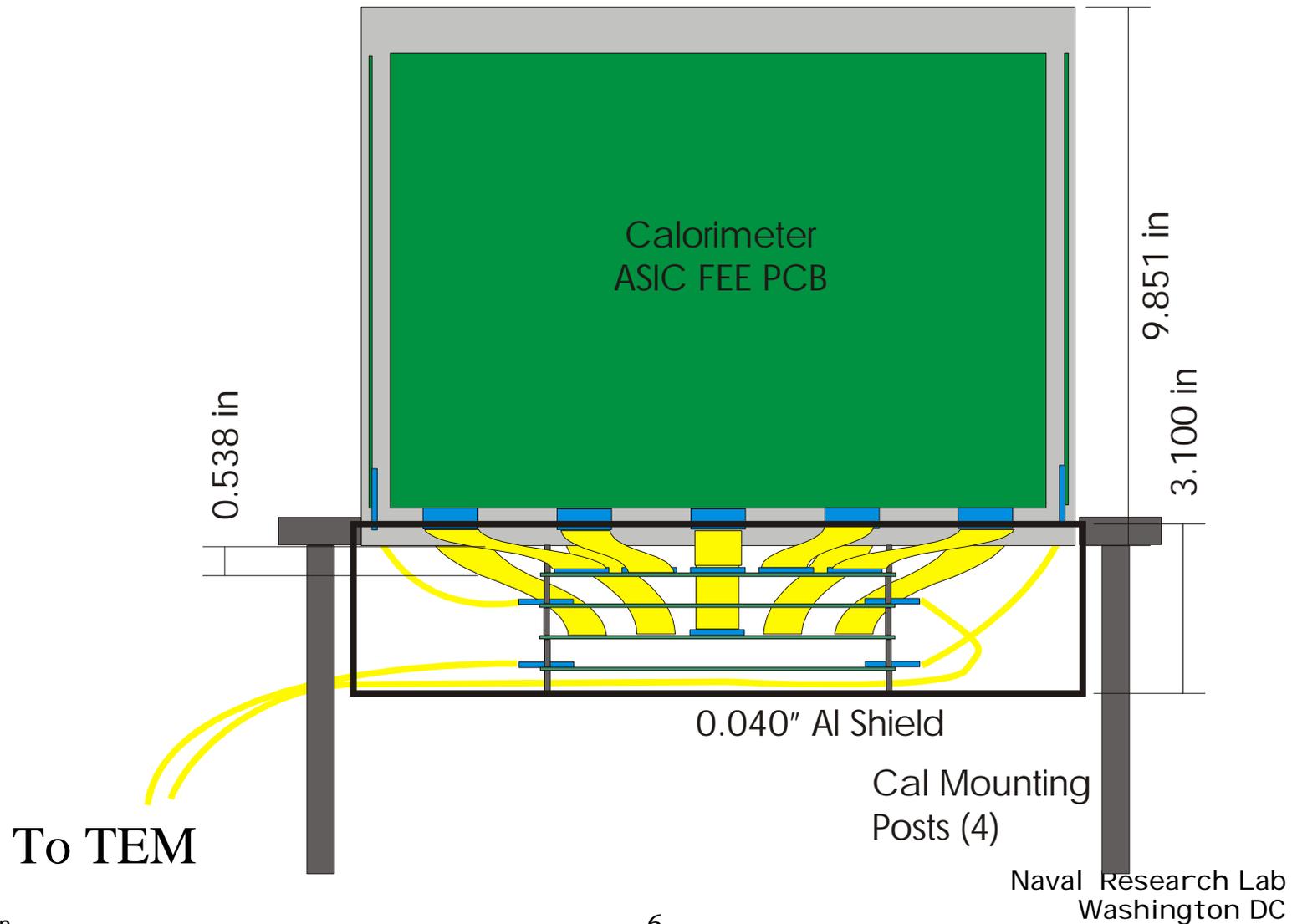


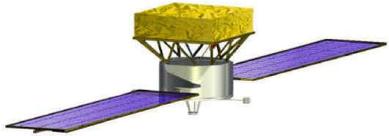


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Calorimeter Electronics Side View

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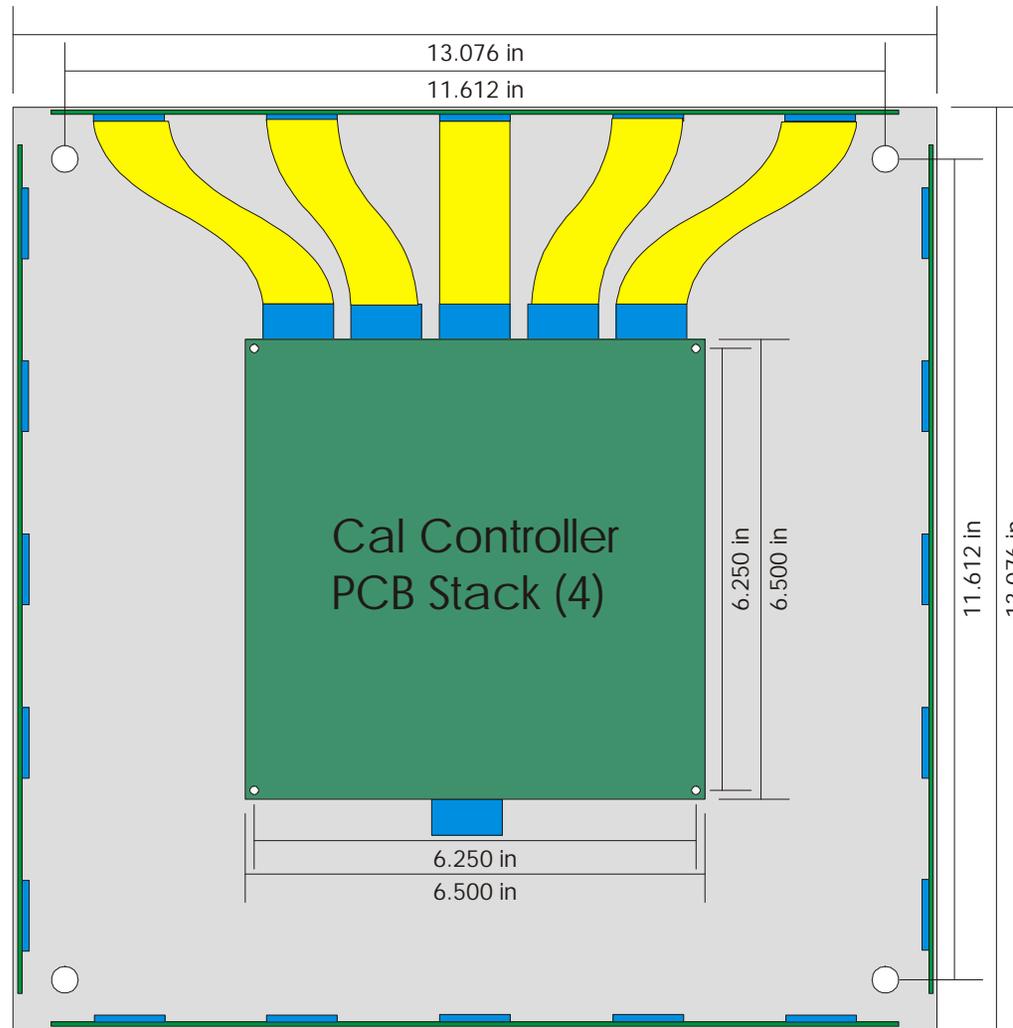




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Calorimeter Electronics Bottom View

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