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*** CALORIMETER (Carosso)

4. 1. 5. 1 CAL Management

Supported TRACKER PDR at SLAC.
Preparation for CAL Peer Review.
Schedule and cost update continued.
Working update of requirements, schedule, and budget for CAL Module assembly and test.

France

After the Interim Review with Neil and Paolo, the French team continued to plan precisely the activities with Yves and Didier for the next months, and make the delivery dates for EM as soon as possible. The dictionary was also improved.

4. 1. 5. 3 Mission Assurance

Attended CDR for tracker at CA.
Provided comments on EEE Parts, Packaging, & Processes.
Discussed EEE Parts Reliability data input into FMEA and generated a report on the value, including EEE failure reports in FMEA.
Discussed Thermal mapping issue on tracker MCM
Preparing for Calorimeter and ACD PDRs.

4. 1. 5. 5 Crystal Detector Elements

Software for the crystal optical testing station data acquisition and analysis is being revised following tests in Sweden. Among other things, the dreaded diametrically opposed usage of comma and period in floating point numbers in the US and Europe has reared its head within LabView. (NRL)

The thermal vac chamber at NRL has been fixed, so thermal cycling of crystal-diode bonds can recommence. (NRL)

4. 1. 5. 6 CAL Pre Electronics Module

Taher continues progressing on test benches software at Polytechnique with a young stagiaire (Simina). Alain and Taher started the procurement for the EM test bench and CDE test bench electronics, and hodoscope for EM

Boubou, Alain, Gilles and Patrick planed mechanics and electronics modifications for Saclays Test bench adaptation for VM2 light yield test.

Oscar started very efficiently the thermal calculations for the PEM. The calculations will be completed in the next few days.

Every one is well informed about the writing for the IPDR, and spent time to write the documentation.

Pierre was still working with Jacky on the capton cable design and soldering, and proposed to team criticism improved versions of the drawing. Questions were asked

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to Hamamatsu on compatibility of connexion stick bending with Nasa and Cnes requirements -NASA-STD-8739.3 w/Change 2 December 1997 (Soldered Electrical connections - Chapter 8 Part mounting).

For the PIN Diode bonding on CsI, we were working with CETIM on the gluing procedure. CETIM started already to make some procedure test for DC93 -500 with primer and MB 37. Samples are in preparations for glue transparency studies and aging by Remy. Additional testes are planed at College. The thermal vacuum cycling machine was received at College and all mechanical and thermal parts are ready to be assembled together.

We received the 10x 20 mm diodes from Hamamatsu for light yield and gluing test purpose. We were quite surprised to observe that the epoxy on the carrier is still sticky.

Insertion of crystals wrapped by Oscar, Gilles, and Bonnemaïson into the carbon cells was made without problem. Boubou and Yves at Saclay and Gilles at Polytechnique continued Light yield extensive measurements for cells and wrappings. Comparison of results obtained on both test benches are currently made.

4. 1. 5. 7 CAL Analog Front End Electronics

Completed the first draft of the "Conceptual Design of the Glast Calorimeter Readout Control (GCRC) ASIC". Also have sent the GCFE_Test_Bd1 PCB design out for fabrication.

4. 1. 5. 4. 5 CAL Software/Design Verification

Testing of CAL ntuple variables for PDR work is in progress. A couple bugs have been squashed. See discussion at <http://gamma.nrl.navy.mil/glast/CalSW/Jun01/CALPDRprep21.htm> (NRL)

Work on improved correction factors for energy deposition in the TKR is in progress. (NRL and France)

Improved gain calibration algorithms are under development for balloon flight use. Tests will be performed on proton events from SLAC 1999/2000 data. (NRL and Gi ebels/SLAC).

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