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*** CALORIMETER (Carosso)

4. 1. 5. 1 CAL Management

A Calorimeter Interim Design Review was held in Paris on June 11-13. PEM Structure and CDE (including PIN Diode bonding) design status were reviewed to assess readiness for the upcoming Calorimeter PDR. Also, the schedule and WBS of the French program components were reviewed and updated. Management issues were also discussed.

Work on revised requirements, schedule, and budget for CAL Module assembly and test has begun. (NRL)

4. 1. 5. 5 Crystal Detector Elements

Georg and Staffan tuned the optical test bench for better performance. (see report from Georg next week)

Started to rework mechanical measurement support tooling.

Variou software work/rework for mechanical test bench.

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

- 1) Completed GCFE test board layout, will submit for fabrication early next week. Have ordered parts for the board, and have the gcfe test sockets in hand,
- 2) Completed acquiring sample quantities of possible digital to analog converter chips and op-amp chips for flight calorimeter. Have them soldered to test sockets for laser latchup testing. Will be sending the chips out for de-lidding next week.

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

Created display for CAL event reconstruction. See an example at http://gamma.nrl.navy.mil/glast/CalSW/Jun01/good_event.jpg. (NRL)

CAL ntuple variables are now fully populated for PDR work. Software testing is now in progress. See discussion at <http://gamma.nrl.navy.mil/glast/CalSW/Jun01/CALPDRprep14.htm>. (NRL)

Energy reconstruction algorithms (both profiling and leakage-correlation) are operating. Leakage correlation will be tuned for flight geometry in the coming weeks. Correction factors for energy deposition in the TKR have been inserted in the code, but they are out of date and need to be rederived for the flight geometry also. (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 Giebels/SLAC).

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