

Weekly Report for the week ending June 7, 2001

*** CALORIMETER (Carosso)

4. 1. 5. 1 CAL Management

Preparation of the Calorimeter Interim Design Review to be held in Paris the week of June 11th.

4. 1. 5. 3 Performance Assurance

- Attended GLSAT staff meeting at GSFC and explained the testing and manufacturing controls which will be used for Flight Flex cables.
- Discussed ACD parts issues with GSFC.
- Resolving issues with Tracker and CAL EEE parts.
- Discussed FMEA and reliability analyses issues for CAL.
- EEE parts plan will be updated with addition of GSFC code 562 Ashok Sharma's support.

4. 1. 5. 5. Crystal detector Elements

Minor tweaks to the Crystal Optical Testing Station analysis software continue. (NRL)

Thermal cycling on sample of soft epoxy optical coupling is on hold for a short time: because of a failure in the thermostat controlling the thermal-vac chamber, a crystal + diode assembly suffered a peak temperature of >125 C and exposure to >100 C for at least 4 hours! Amazingly, there seems to have been no change in the light yield. (NRL)

Sweden

Staffan, Georg and Leif was in Stockholm on wednesday and thursday. Meeting with Per about boule testing procedure, Mark Pearce is responsible for this. Testing will take place in KTH Stockholm. Boule samples are also send to NRL (via Neil J. in Paris).

Started to measure the x-tals from AMCRYS-H, the crystals looks nice and is clear. We need to discuss what we should save on the cd-rom, if we save all it takes about 11M (optical data only) for one x-tal. (Now we will try to save as much as possible).

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

Revised electronic constants (gains, noise, etc) in simulation instrument.xml to reflect flight instrument design requirements and/or demonstrated performance. (NRL)

Found and fixed two minor bugs in glastsim particle propagation having to do with boundaries of volumes. Should have no significant effect on results. (NRL)

CAL ntuple variables are being populated for PDR work. CAL team has been very active in discussing changes to the contents of the ntuple and the algorithms behind them. See discussion at <http://gamma.nrl.navy.mil/glast/CalSW/Jun01/CALPDRprep.htm>. (NRL)

Reviewed contents of CalRecon to prioritize work and schedule prior to PDR runs. (NRL)