

Weekly Report for the week ending May 31, 2001

*** CALORIMETER (N. Johnson)

4. 1. 5. 1 CAL Management

- Prepared schedules, WBS dictionary for meetings in Paris, June 11 - 13.
- Supported CAL Clearance Task Force teleconf.

France

- Travel for discussion in Sweden (Gilles, Didier)
- Ordering of the double Diodes ready for the administrative part.
- Ordering should be sent next week.

4. 1. 5. 3 Performance Assurance

- Revising the EEE parts plan to include involvement of GSFC code 562 and common buy part plan for ACD.
- Discussed ACD parts issues and suggested ways to reduce cost.
- Discussed EEE parts requirement for calorimeter.
- Prepared reliability plan to be used for calorimeter.
- Reviewing LAT material parts plan for handling of mechanical parts list.

4. 1. 5. 4 CAL Design

- Progress on engineering drawings for production of VM2 mechanical parts
- VM2 production: Tests to produce "clean" cells with 3M mirror film so that no machining of composite structure sides is required (Difficulty to cut the ends of the cells with a diamond saw because of the inserts, milling , as done on VM1, is impossible because of the 3M film).
- VM1 shake test report: Draft of VM1 shake test report

4. 1. 5. 5 Crystal Detector Elements

- A new version of the Crystal Optical Testing Station analysis software was shipped to Kalmar. (NRL)
- Thermal cycling continues on samples of soft epoxy optical coupling. (NRL)

France

- CDE Integration process description in preparation.

4. 1. 5. 5. 2 CAL CsI Scintillation Crystal

The last (of the first 24) x-tals arrived to kalmar May 30.
We have now all the first 24 x-tals in kalmar, and will send 4 to NRL.
We will also send 2 boule samples.

The optical testbench was "taken down" and "put together" as for shipment, and it works fine and acts stable.

New software from NRL, we have some questions about the presented result. This will be put together by Georg.

France

- Crystal performances & wrapping testing:
- Measurement of crystal with new 3M product.
- Adaptation of the bench for hot cell measurement.
- Study to upgrade the cosmic bench for tests with the VM2 PEM

4. 1. 5. 5. 3 PIN Photodiode

France

Pin photodiode

- Meeting on the diodes process for the VM2 and organization of the work
- 10x20 Hama diodes have been measured and a report send.

PIN Bonding (Collège de France and Polytechnique)

- Discussion with CETIM company. Cetim experts have send the process for gluing, discussion next week.
- The vacuum thermal cycling device to test bonding has been delivered to College de France .

4. 1. 5. 6 CAL Pre Electronics Module

VM2 Structure

- Production of mechanical parts for composite structure tooling started in the industry.
- Production of hot cells with 3M mirror film for Saclay optical test bench for performance evaluation (Polytechnic group)

PEM / VM2 Integration & tests:

- Meeting on the subject and process description in preparation

- PEM integration : GSE

Activity is going on

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

- Began revision of CAL Electronics concept document recording decisions at May 9th meeting with SLAC and NRL.

- Completed test board schematic design which will enable testing of the GCFE ASIC submissions 1 and 2. Circuit board layout has begun for the design.

4. 1. E. 3 CAL Balloon Flight

Created CAL command script parsing program to create hex ascii command tables to be loaded into BF software.

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

- Work continues on the CAL-HI trigger study. We are preparing a two-level trigger to provide the needed rejection of interacting CR protons. (Chekhtman and Grove).
- Submitted improved, revised CAL flight geometry description to SLAC (Grove).
- Reviewing of CAL ntuple variables for PDR work.
- Reviewed contents of CalRecon to prioritize work and schedule prior to PDR runs.

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