

## CALICE COLLABORATION

### Steering Board Meetings of September 20 - 22, 2006 at CERN

Minutes compiled by J Repond

#### Present

Jean-Claude Brient (spokesperson), Misha Danilov (Russia), Paul Dauncey (partially, United Kingdom), José Repond (chairman of steering board), Felix Sefkow (Germany), Tohru Takeshita (partially, Japan), Vaclav Vrba (Czech Republic), Jean-Charles Vanel (partially, France), David Ward (partially, United Kingdom), Andy White (partially, by phone, United States), Jaehoon Yu (partially, by phone, chairman of the technical board).

#### New members

**Japan:** Kiyotomo Kawagoe (Kobe University) and Tohru Takeshita (Shinshu University) have applied for membership. They propose to develop a scintillator based ECAL and HCAL, both read out with Hamamatsu MPPCs. The steering board unanimously accepted their memberships. Nevertheless, several concerns were raised by the board and were later also discussed with Takeshita:

- Coordination of the prototype construction plans with the corresponding projects already being pursued within the collaboration. In particular, the plan of building a 1 m<sup>3</sup> HCAL prototype with scintillator strips needs to be coordinated with the tile-cal group. The proposed concept using strips with an area similar to the tiles in the AHCAL appeared to be too similar to the current AHCAL prototype to justify the construction of a second 1 m<sup>3</sup> prototype calorimeter.
- Openness of the results obtained with the Hamamatsu MPPCs. Of particular concern is that withholding information (possibly imposed by Hamamatsu) might have a negative impact on the openness of the Russian counterpart.

**Morocco:** A group from University of Casablanca contacted Brient for possible membership in CALICE. More to come in the next few months...

**CIEMAT – Madrid:** Discussions will initiate soon.

#### Support of the MIPP experiment

Questions concerning the data rate, tagging efficiency and momentum resolution of the tagged particles remain. In particular, given the slow recovery time of RPCs, the question

of rates (signal/background) and trigger schemes need to be understood. Repond agreed to contact Rajendra to discuss these issues. Depending on the outcome of the discussion, a letter of support addressed to the FNAL management will be written.

### **Funding situation**

**USA:** There is hope for more adequate funding starting in fiscal years 2007/8. The DHCAL group was asked (by DOE) to submit a proposal requesting a maximum of \$500k/year over the next two years.

### **Data analysis and software coordination**

The board felt that additional coordination of the various analysis efforts was needed. To this effect the board proposed to create two new positions in addition to the current software coordinator, leading to the following team coordinators:

- Software implementation coordinator: her/his main task being the maintenance of the various software packages used for analysis and simulation
- Test beam data analysis coordinator: her/his main task being to ensure that all necessary steps in analyzing and interpreting the test beam data are properly executed.
- Physics coordinator: her/his major task is to ensure the soundness of the results and to coordinate their approval process by the collaboration.

In addition to David Ward, our current software coordinator, various candidates for the remaining two positions were discussed. Brient agreed to approach the candidates to establish their willingness to take on a larger coordination role within the collaboration.

### **CERN test beams and move to FNAL**

Several facts entered the discussion on future CALICE test beam activities:

- Test beams at the CERN SPS will be turned off in November 2007, since at that time the SPS will be taken over as (full time) injector of the LHC.
- Construction of the ECAL will be completed at the earliest by 5/2007.
- Construction of the AHCAL will be completed by 1/2007, at the latest by 4/2007.
- The next test beam period should involve the completed ECAL and AHCAL prototypes.
- The ECAL and AHCAL groups feel strongly that their respective detectors need to be completely debugged in a test beam before considering their move to FNAL.
- FNAL test beam will be shut down between June - July 2007.
- The move to FNAL should occur at the earliest date possible.
- The RPC and GEM slice test module will be tested at FNAL in spring 2007.

Given the above points, the board decided on the following game plan:

- The ECAL and AHCAL will undergo further testing in the CERN test beam in 2007. The tests should start in May – June (2 – 3 weeks), followed by a second period 4 weeks later (to provide an opportunity to repair possible problems).
- After the 2<sup>nd</sup> period, the groups should be given a month to look at their data and ensure that the detectors are working as expected.
- The target date for the move to FNAL is 9/2007.
- In the meantime the RPC and GEM slice test will make use of the MTBF test beam at FNAL starting in 3/2007 or 4/2007.

### **Next collaboration meeting**

The next collaboration meeting is planned for March in Japan (location to be determined). Further meetings are tentatively scheduled for June-July in Prague and in fall at FNAL (possibly organized by Argonne).

### **Postscriptum**

January 17 – 19, 2007 there will be an ILC testbeam workshop at Fermilab.