

ECal group meeting 09.09.2013

News:

- A new postdoc will arrive in IPN Orsay to work on the ECal in the coming month
- INFN is going to have review for the APD upgrade next week and will present results at the HPS main meeting on the 25th.

Update was given on mother boards design in INFN. The new design is making progress with a new setting of 4 boards instead of 8. A meeting is planned with the mechanical engineer in Orsay in the coming week to work out the details. (Link to presentation: [PratolongoHPSmotherboard.pdf](#))

Andrea Celentano gave update on the LED light monitoring system. Mechanics design is under discussion in INFN, the main issue being the tilt of the crystals to which the LED need to be connected. He also provided results on the radiation resistance of the LEDs, the bi-color LED is less affected, in particular for its red component for which no effect was seen after radiation. (Link to presentation: [?Celentano-LedMonitor.pdf](#))

Raphaël presented the work from Emmanuel Raully in Orsay about pre-amplifiers. It was found that very minor work is necessary to update the preamplifiers with only 4 or 5 elements to change, depending on the APD that will finally be used. Another good news is that the integration gate can be significantly reduced. The use of 64ns gate is now possible, but has to be evaluated against noise increase. (Link to presentation: [?HPS_PA_2aout2013.pdf](#))

We had discussion on the dismounting of the ECal. Stepan will send to IPN Orsay the preamplifiers as soon as possible. Paper work for export being the most time consuming... IPN Orsay is ready to begin to work on the preamplifiers as soon as they arrive. IPN Orsay also proposed to send mechanical engineer for the dismounting of the ECal structure since some precautions are in order when the detector is taken appart. The IPN crew will travel to JLab in November for this operation.

Final point was to discuss the involment of the group into the paper that is written for the test run. This question will be discussed in more details in the next meeting, after the members can get more information on the status and what is expected from the group.