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Minutes of NectarCAM PC meeting – 7 December 2017

Subject / <i>Objet</i>	NectarCAM PC meeting
Date of meeting	074/12/2017
Location / <i>Lieu</i>	SeeVogh
Writer / <i>Rédacteur</i>	Julie

Chairperson	Julie
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Participants : Pierre Jean, Philippe Galdemard, Patrick Sizun, Francois Toussenel, Steve Fegan, Frederic Louis, Julie Prast, Jean-Francois (JF), Julien Houles, Sandrine Pavy, Christophe Marty, Thomas Tavernier
Redactor : Julie

Indico <https://indico.in2p3.fr/event/16778/>

1. SUMMARY OF DISCUSSION

Please refer to the slides prepared by Pierre, Patrick and Thomas and available on indico. Several nice plots were shown on the FPM performances and a really hard work was made by the teams. Results seems to be very encouraging and we are closed to be ready for the pre-production phase.

There are still some minor points to clarify:

1. Gain variation with NSB @ low gain
2. Undershoot to be quantified more precisely in duration & amplitude, but does not seem critical.
3. Quite large spread among the pixel gain in DC /pe to be understood (~16% dispersion)
4. Bandwidth of HVPA after the change to be measured
5. Performance measurements to be done on modified FPM & shielded anode. Extra cost and extra time to produce with the anode shielding is to be quantified quickly.

Please show all curves related to noise with the same unit (NSB in MHz/pixel) so that we all talk the same language as used in CTA requirements (given with NSB= 125MHz/pixel). No goal existing any more. Points 2 and 5 have the highest priority.

Pierre is afraid that we do not reach the resolution of 0.2 pe. This an internal spec (level C), we can manage. Could be 0.25. However we want to keep PMT gain of 40 000.

Schedule :


15 new first FPM will be available around June and will be paid from INSU/CNRS & Labex OCEVU money. This scenario is not compatible with current NCAM schedule and will be discussed next week. Call for tender for the 60/265 modules would be launched in January. FPM detailed schedule will be provided by Pierre for next week.

2. REPORTS :

[Some news about the Embedded Camera Controller \(Julie\)](#)

Not so many news to share as Nadia spent 1 nice month in vacations recently

Jean-Luc and Nadia are preparing the second commissioning week @ CIEMAT for LSTCAM (the week before

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Christmas)

In relation with IPNO to benefit from mutual experience on motor synchronization (reflective target control)
Confirmation that mechanics designed for LSTCAM can be used as it is now for NectarCAM.

Some news about project & system engineering (Julie)

Ongoing review on CTA requirements in JAMA. Received already several interesting comments from many of you that I will compile the next 2 days. Thank you !

Assist partially to the last CTA PC (first day). Nice talks in particular from the new PM. I will try to summarize main info next week.

In contact with POP and our guests for next week organization.

News from AIV (Patrick & Fred):

- M. Punch updated the CDTS server so that we can configure it to not forward busy events (now sent by the UCTS) to the camera server.

- New UCTS tests have been tentatively scheduled for the week of January 15 with C. Champion and M. Punch.

- We are expecting a RPi compute module version 3 for the TIB, sent by L. A. Tejedor.

- We inventoried our backplanes. Pierre, do you want us to bring some to Grenoble for your test bench? How many and of which type? We have 3 version 2 central analog backplanes, and 2 version 1. And of course digital backplanes.

- The administrative procedure is coming to its end and the IRFU order for 60 FEBs must be placed for the end of the week.

Quality Work package (Sandrine)

On going on regular actions.

—> **Action management tool** : only few updates done (Jean-François, Patrick and Julie). Still lot of actions to clean or update.