**Upgrade management meeting**

9 January 2018

Presents: Gabriella, Nicolas, Ian, Salvador, Salvatore

**Cohax PCB + Electronic validation**

Where?

First feedback from Lyon by next week.

Then the chamber will be at CERN and we will validate the 2D, noise, efficiency, reproducibility, stability. This is an important learning phase for all of us to get familiar about the new electronic.

Time scale?

This job can last by the end of February at most (before working on the return PCB chamber).

Manpower?

Nicolas, Laurent and Maxime can supervise this activity, then good young candidates to get involved are Alexis (Gabriella will check with Gent), Mateo (Salvador can check and let us know), Saleh even being mostly software he will be at CERN in next 2 months, Konstantin from Lyon. Kristos (PHD student from Gent) is more involved in GEM now and can be involved in RPC in next period only for services. Elena cannot be involved in this activity as too busy. Same case for Andrea, being involved in longevity and Ship chamber.

Material?

No material to be manufactured for that.

**Return PCB + Electronic validation**

Material?

In case the return PCB will be ordered next week, it will be delivered in Lyon by the end of January (best guess). Then it will be tested in Lyon from electronic point of view, and this will last at least up to the end of february. By that day we will need the rest of material for a return chamber to insert this PCB in.

Additional elements to do the chamber: Elena provided drawing for modification of RE4 chamber for this test. Gaps are available. All the rest of small components will be manufactured at CERN workshop (timotey). The LEGO return chamber should be ready by the middle of February. Impadence measurements should be performed at CERN before starting all the rest of measurements (like in LEGO cohax chamber).

Time scale?

Lego Return

Measurement job to be completed by the end of march.

Team to be involved?

Mateo and Saleh, Elena will take care about the drawing for P5 workshop.

**GIF prototype cohax/return chambers for test beam meausrements**

With this name we intend something close the the final real chamber but more strong and rigid to manipulate it safetly, and test all details but not yet final as we will have to do a new honeycomb panels for it (and we will do it only when we will know the final electronics).

We want to use the return gaps for both return and cohax GIF chamber prototype. This will demand a new production pf cohax PCB longer to be compatible with the return gaps. We will ask Imad time/cost for that.

No new gap to be manufactures.

Return PCB strips will be available, Cohax PCB strips to be redone (longer version).

Mechanics: we cannibalise the RE4/3 modified to look more similar to final real chamber and more rigid (to be done in P5 after YETS) or Imad has alternative firm or Ian will check with Salvador the possible Mexican firm.

All the internal small pieces will be manufactured here at CERN.

Timescale?

Middle of May for test beam measurement

Manpower?

Elena can make drawing once we get the OK from Imab for the longer cohax PCB.

Giorgian engineer for any drawing of mechancs and Ian will manage the link with P5 workshop.

Chamber assembly: Nicolas/Laurent and Maxime supervise it, and young team is the same as for previous acvitities.

**Atlas electronics**

To be discussed in next meeting (probably tomorrow morning in 904).

**Integration office details**

Cable chain occupancy. We could involve the Georgia team to work on that.