**Minutes – 040618**

**Present: HH, SW, SB, DS, AG, TJ, IT, PS**

**Apologies:**

**Strip modules**

LS Module built. Need to test. Need to get LS module to RAL by Wednesday to get to DESY.

Jens could transport?

Important for sensor qualification. (Hamumatsu) Infineon have dropeed out. Of all physics

Barrel and endcap diverging on toolling.

QA/QC strip meeting in oxford.

Quick strip politics chat after lunch –

1st mechanical module. Liam happy wirebonding.

Ready to build real one.

No proper test frame.

Still working on tools. Meeting with Mark W today on tool schedule manufacture.

hybrid EDMS discussion.

Meeting Thursday/Friday QA – pre oxford meeting.

***HH to speak to Marielle. (2 days a week)***

*Bondhead is back. They are visiting this week? Second wirebonder not back yet*

*Strip tooling: SW to ask MW about tooling turn around time.*

*SW to do metrullurgy*

*If good -> build dummy circuits*

*Strip staves:*

*DS has moved into SBND.*

*DS to investigate industrial partners for strip module tooling.*

*We would need to do qualification procedure.*

*Would need to go to tender.*

*Need a spec doc.*

*Fall out from F2F*

*Implement HV tabs on sensors. Can’t go on bus tape*

*Need to change LSS module going from X-> Y*

*Need to change frames, modules….*

*Conclusion on how the hv tabs look like*

*Problem with strip integration of design*

*Want module frame that can be used to test sensors*

*1 months work in 2 weeks….*

***Joint uk/us hybrid production meeting?***

*Chinese doing hybrid production?? Yanyan to ask Joelle*

**Strip Mechanics**

We have a meeting.

By end of this year, one set of tooling to make 14 module stave.

Organise meeting next week. PS to write talk on design of 14 module staves.

EOS card area has changed again. DS: up and running need to sart prepaping. Show Fred 3d printing in mech eng.

Discussion at 10am meeting about agenda for 4th/5th meeting.

Chasing delivery of welding parts.

Stave core assembly meeting 1st week in June

4th/5th June (Lime street shut) HH – investigate

TJ to book lunches, rooms are booked

DS at CERN last week for welding meeting. (ATLAS, CMS, LHCb…. ) Sheffield taking the lead.

We have all the foam for the stave cores. – DS can get going with stave cores. TJ only here Monday/tuesday this week.

**Pixel modules**

Parasitic current disappears if resistor removed. -> still debugging module stave

Prepare long cables. Check filters for power supply.

Currently designing new module.

IT promised to send CF stave fragment to oxford. One unpopulated hybrid for gluing studies. Common solution is about thermal stress.

**No dedicated account for DAQ. PC**

**Yarr: pick up fnc adapter card. Craig to chase Andreas for rd53 bits. Glasgow to get 16bit cards from Bonn.**

**YG/JT test beama analysis. Matt to finish QT.**

**If spare time: IT has thin silicon. Try gluing to new hybrid.**

**Chip for irradiation.**

**Pixels now square 50x50**

- Move COB PC into the cleanroom - continue setting up - HSIO2 running first - then VLDB

- Make the long cables

- Long cable tests on the stave

- Run the new hybrid?

- Legal stuff for the RD53A chip (US compliance letter) - I now have a contact in the legal department

- Ususal meetings

JT busy with test beam last week.

This week : wp1 meeting -> Is Ilya giving talk ?

Results from paralyn coated quad. Paul to put in irradiation queue.

Some FE on stave not responding -> moisture build up. Get under microscope.

Environmental chamber for ring0.

Get current ring from Manchester -> prepare box. Treat as thermo-mechanical module.

**Pixel Mechanics**

Fred is working on aggragator chip. Still sorting location. On outer rim ? connected to modules with right angle conenctors. Discussion about whether it needs to be cooled. PS: analysis of half rings with tape -> thermal distortions. Currently updating model. New tape etc….

PS mechanical analysis

Meeting next Wednesday for aggregator chips. -> where to go.

What preparation for milan ?

SB started half-ring specification document.

Meeting with danilo this Thursday : what is expected in PDR. (pixel structures) .

Operations this week : .

Schedule for LHCb off planar

When does big CNC become available for stave vacuum jigs. Next week we will know schedule for strip staves. We make 2 vacuum plates by Christmas …..

We need long term plan of how we are using clean room.

Stage time scale by quarter through 2018/19/20

Sven to coordinate meeting with pixels…..

**AOB**

Vc visit 13th June – tidy downstairs, posters up.

Signs for doors,