**Minutes – 230418**

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

**Apologies:**

Sven

**Strip modules**

Chips will be earlier (tbc) -> impact on tools. We will need to produce tools sooner. 12 wafer submission (was going to be 2 +10) – 60 day turn around.

Currently told workshop August, we need to change them to July.

Need industry ready drawings

A LSModule for testbeam in hamburg. To qualify LSS as part of market ensor.

AG-> layout for module frame. (RAL and Liverpool make 1 module each). Build 5-6

Build hybrids for new panel with new star design. Important for DCS. QA thermal cycling at oxford.

SW-> 2 hybrids for new module.

We are doing tools for us and RAL. TA thinks we are doing SCIPP as well.

SW count chips for requirements.

Qualification of passives. All passives need to be qualified. No takers. Radiation.

AG to talk to CERN direct to find what is needed.

Richard Nickersons secret agenda …

SW has access to production database (talk at LAU – 11th may).

Sensor tests during production (PA is thinking about). Ilya looking at alibava pitch adapters. How many do we want? Order from Chinese. Q. do we Liverpool want to buy some (£3000).

WP3 F2F next week -> Birmingham (Tuesday).

**Strip Mechanics**

PS: nothing. Discussed with Tony W. with Tooling. Tim has organised a meeting in June.

DS has swapped probe on CMM. Calibrated it. However….. 62-250microns above the 12microns tolerance. Rang denzil. On hold 10 minutes. Gonna try again.

DS is doing CF for c-channels. Looking at stephanies c-channels.

Dave Payne -> end of first week of may.

**Stave tool assembly meeting 4th-5th June. HERE! TJ to investigate rooms.**

**Pixel modules**

**Last 2 modules received from Glasgow are warped.**

* **Use laser in small smart scope.**

**Ilya** has populated modules. Very smooth method. Ilya has commissioned roller mill.

One bonding machine unavailable this week.

Mike is working on bump bonding. Ilya is preparing new flex for new hybrid. To to show on Thursday.

New hybrid for bus tape from Tuesday.

Ilya progressed with gluing method for Argonne. Has ESTA

Ilya has ftting. Paul has pipe . do we take to Sheffield for welding. Straight pipe.?

Ilya evaluated photo paper for making modules. Doesn’t seep glue. Ilya has submitted boxes. Populated first five himself. Distributed to Glasgow Manchester oxford. Finish with Stevenage.

Manual bonder -> request in operations meeting next Wednesday. Patch work. ? use 710 instead?

**Pixel Mechanics**

Discussion last week. agreement on envelope. Agreement on tolerances. 97mm between barrel and endcap. Including 61mm for barrel.

Peter is in tomorrow. PS to explain to Ilya conventions 9-10 tomorrow. Ilya needs to draft hybrid.