**Minutes – 011018**

**Present: HH, AG, SW, LB, DS, TJ, PS, JT, chen**

**Apologies:**

**Strip modules**

5 hybrids tested.

13 module stave completed.

Hybrid “wne tout” design from manufacture report from Stevenage.

One component has end of life notice. Production pulled in April. Backup component on 17 week lead time. Hybrid layout redesigned.

Hybrid panel went out this morning. need hardened gold connector. 4 wire measurements -> get Arduino -> Liam ? get keithley multimeter .

Looking into automatic wirebonder pull tester. Training course in London (Mike organising (mike , liam and sven)). -> then find out if automatic , and cost. Could do x-ray and testing of bump bonds.

**Strip Mechanics**

TJ has spreadsheet from Stephanie to compare our stave to theirs. . TJ and DS doing 3 point bending tests. TJ thinks stave is too floppy compared to battered stave core

Stave core preliminary design review today at 12 o’clock. PS to attend?

Need big and little CMM up and running. DS ordered air blower for big CMM. Both CMM need calibrations. Use little to measure thickness of CMM.

Vacuum jig: kevin checking design. Kevin asking how critical final minimum thickness of 35mm is ok. Next in queue after lhcb.

TJ had conversation with Stephanie Yang. They are looking at end of October for all of their tooling. We aim to have ours in 2 weeks. Should be close to final tooling.

DS to complete QC measurements on stave. Full metrology, surface flatness, twists, bends.

Q: do we have any more facesheets? – possibly 2 of the same side.

**Pixel modules**

First electrical ring0 module looks good. Bent tabs are “disaster”. Irregular bending. After annealing angle of curvature to small. -> is pushing silicon up.

IT to report on Thursday.

JT,IT and chen to make 3 modules today.

IT has quotes to submit connectors for ring0.

Wafers-> IT has sent Craig a draft. CB ask IT to prepare test structures.

Last question is what to do with guard ring structure. Craig has placed purchase order.

YArr/DAQ: Q: can we take sources out of lab into electronics lab. Source tests.

Next week a test beam: test 4 irradiated modules (last CERN testbeam for 2years).

Could be suitable for 4th year students.

**Pixel Mechanics**

No outcome from pixel local supports review.

Need meeting with peter cooke.

There is a order for pre-preg.

Need to move with prototypes.

JP is on holiday this week and next week.

Charles Evans is designing PST. PS to speak to CE.

Need to book paris,

TJ to come up with list of masses for pixel support point.s

**AOB**

**LAU this Friday**

**HH-> book room**

**6th Nov pizza night.**