Monday Morning Notes (9th July 2018)

# Present

* Sven (Pastries), Jon, Ilya, Dave, Peter S, Tim (notes), Sergey

# News

* Dave got his welding certificate ☺
* Josh (Dave’s son) is here for a week of work-experience

# Strip Modules

* Last week Ash completed the design of the module test frame. Two types are needed for LS and SS modules. This is thought to be a ‘final’ test card for ABC-Star ASICs. ASIC delivery mid-late September. Designed to be made in standard FR4. Ash will speak to potential vendors this week to check design & submit.
* Last week Sven glued hybrids to SS module for current electrical stave. Problems experienced with wire-bonding. To be investigated further this week by Mike W/Sven.
* Sven completed drawings for another jig. TJ to put into W/S. Sven may have more drawings this week for w/shop.

# Strip Mechanics

* Dave Sim away welding last week. Plan is to begin building a stave core this week with Hamish’s help. TJJ suggested going through each step slowly.
* Peter has a stave core engineering meeting at Oxford on Friday.

# Pixel Modules

* Last week the schedule for Ring-0 got pushed at the WP13 meeting. Agreement that Liverpool does all the hybrid flex reception testing. The test card has been sent to Glasgow and needs to come back. Ilya has tested the 8 hybrid flexes for the Liverpool modules. He believes each hybrid flex will take 1h each (visual inspection followed by ‘burn-in’ under bias.
* Ilya needs to document QC process. Hybrids need labelling following proposal from Liam Cunningham.
* Module assembly: TJ suggests modules assembled in 3 sub-batches of 1, 2 & 5 modules per day.
* RD53a modules: 2 single-chip cards imminent. Currently we cannot test at Liverpool. They will be sent for Parylene coating un-tested. Progress needed on YARR development (firmware) – some progress with RD53a test-beam module which will (should) be available to the community in a couple of weeks. Discussion about getting hold of Bonn DAQ. Jon will find out what card they use.

# Pixel Mechanics

* PS reported on discussion on CFRP half-cylinder prototyping. Plan is to make a female mould from the existing half-cylinder mould. PS working on half-ring drawing showing stay-clear areas for module mounting which is required for the design of the type-0 tapes.

# AOB / Gripes

* Russia out of World Cup :(
* Ilya proposes to end penalty shoot-outs. Prefers second period of extra time with 1 player from each team being removed every 3 minutes until someone scores. He will contact FIFA.
* Sven to document ATLAS cleanroom needs for production & start dialogue with LSDC Management.
* Tim will do pastries next week ☺