ATLAS ITk Process

- Module production (Xin and Yuzhen)
  - Assemble three electric hybrids
- Wire bonding (Yuzhen and Paul)
  - ABC130 pull test for optimizing parameters
- Shipping document (Xin and Yuzhen)
  - Release 1st version of barrel module part
- Shipping test (Suyu)
  - Ready for shipping to Dortmund (DE)

Module Production (Xin and Yuzhen)

Modules for double sided stave:

RAL_SS11 = HCC 5/8 -> built, ready for power board
->finish power board and bonding->waiting for test
RAL_SS12 = HCC 9/17 (104_3, 104_7) -> built, ready for bonding
->finish bonding, test, power board assembly and bonding
->waiting for test
RAL_SS13 = HCC 6/12 (102_3, 104_5) -> waiting for assembly
->finish assembly, bonding and test->waiting for power board
RAL_SS14 = HCC 18/16 (104_1, 104_6) -> waiting for 104_1
->finish assembly->wire bonding on the way
RAL_SS15 = HCC 19/20 (104_0, 110_X) -> waiting for 104_0 and 111_X

Assembly three hybrids:

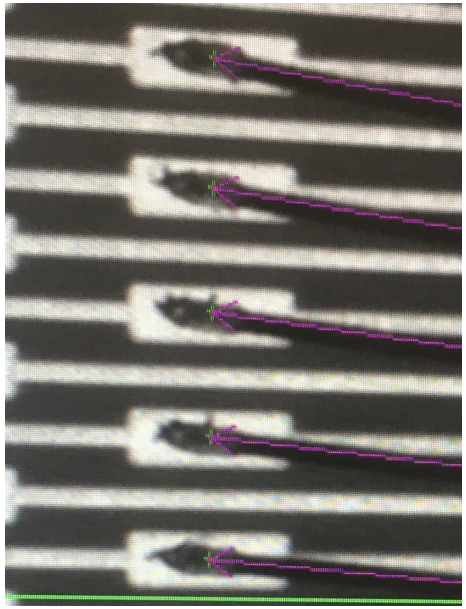
Panel_104_Hybrid0
Panel_104_Hybrid4
HybridY

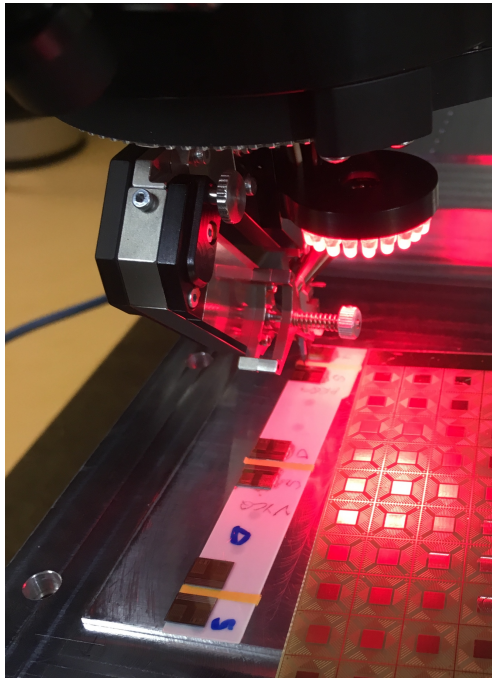
next step: wire bonding, electric test, module assembly

wire bonding: RAL_SS14

- Optimize the front-end program: automatic search fiducials
- Issue:
  - bonds on sensor has whisker-change para, but didn't solve
  - ~1.5% of bonds on ABC130 lift!!!

    --pull test to study the para for ABC130 (on the way)





Shipping

❖ Shipping document (Xin and Yuzhen)

- Release 1st version of barrel module part

https://docs.google.com/document/d/1974A3NSu6eMwxvYAaxC1QPO2a2ZECfseSSnPpwzzOpE/edit#heading=h.e2tsdxd1gp51

❖ Shipping test (Suyu)

- Ready for shipment
- Liu Jun came back to work from Aug 9, and she said the transport agent is finding proper boxes for us(Aug 9).

Plan

1. Module production
   - SS14: finish front-end bonding
   - SS15: finish hybrid wire bonding
2. Wire bonding
   - solve the bond lift problem on ABC130

Thank you !