

# TB preparation meeting Status on LLR jobs







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## Electronics

- Modify CCC to deliver 40Mhz :
- LV cables:
  - Check existing
  - Make new internal cables for SMB5 <</p>
- Update DIF firmware:
  - Move to 40MHz and 5Mhz C
  - Add gated clock 🙂
  - Add OneWire + control command

🗖 Synchro between DAQ 🙂





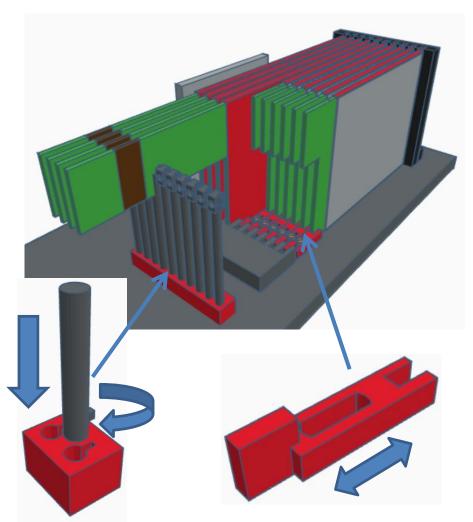


- Mechanics: study solution to integrate FEV board + SMB4/5 or SL board in the U:
  - Reduce length and thickness of U in carbon for SL board (need final code) :
  - Keep solidity with 2 pieces of carbon for SMB4 (need to brainstorm with mechanics engineer)
  - Find a solution for kapton 😕
  - Modify mechanical structure for 10 slabs with SMB4 or SMB5 :



### Modifications to do:

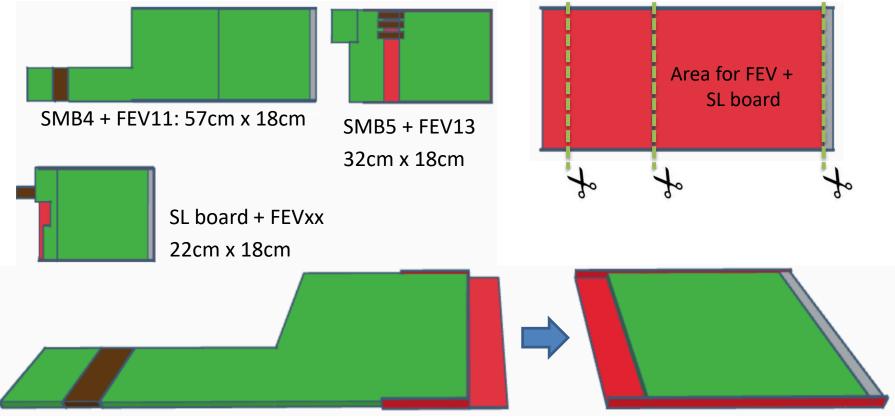
- ☐ Reduce width of chassis
- Add positioning pieces for SMB4/5
- Modify the top keep pieces
- Modify front panel (not priority)
- LLR meeting 17/01/20 to get delivering schedule
- LLR mechanics support is not able to support SL board





### 3 sizes of electronics

#### U in carbon



Left U in carbon shift behind the right U, SMB is connected to FEV with Gradconn connector and hood maintain rigidity.

## To conclude



- Electronics: well progressing
- Mechanics: many steps to brainstorm, pieces to make <</p>

### **New production (assembly) of x SLAB in Japan** with PCB, wafer and chips from LLR <u>but time is short</u>.

**6 wafers** (500μm thick) send to LPNHE to glue on IJCLab FEV12 board

### Next beam test in March 2020 at DESY → the largest number of readout pixel ~ 18kchannel for ECAL group