

## Preparation of long slab construction ECAL meeting LPNHE 3-4 june 2013

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The goal is to simulate a long slab to verify signal integrity with: First time 1 FEV8 COB + 6 FEV8 3C + 1 Adapt Diff Barrel configuration Second time 1 FEV8 COB + 9 FEV8 3C + 1 Adapt Diff Endcap configuration Before assembling a real slab





## **Equipment**

## Solder bench with mechanical support length=1600 mm











### <u>Process</u>

After kapton's been positioned with its support It was soldered with the special tool



1 FEV8 COB card+ 1 FEV8 3C card + 1 Adapt card were interconnected and electrical continuity between FEV8 COB and Adapt is ok





This configuration is ready for the test with ECAL setup

Next step :

Simulate the noise due to the stubs in the PCB by placing resistors and capacitors on some digital lines at the Kapton comb (not initially designed for, thus not obvious to realize)



### Next time

Interconnection will be tested with connector by LLR and the new data logger Keithley 2750



With this special connector and the data acquisition system we can test the interconnection of 144 channels and record all resistance values in the PC

Connector with 2x4x36 quick spring contacts By LLR





Keithley with currently one of four cards with 40 channels



Received in May



If you have some money to buy other cards, I'm interested !!!





# Thank you for your kind attention

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