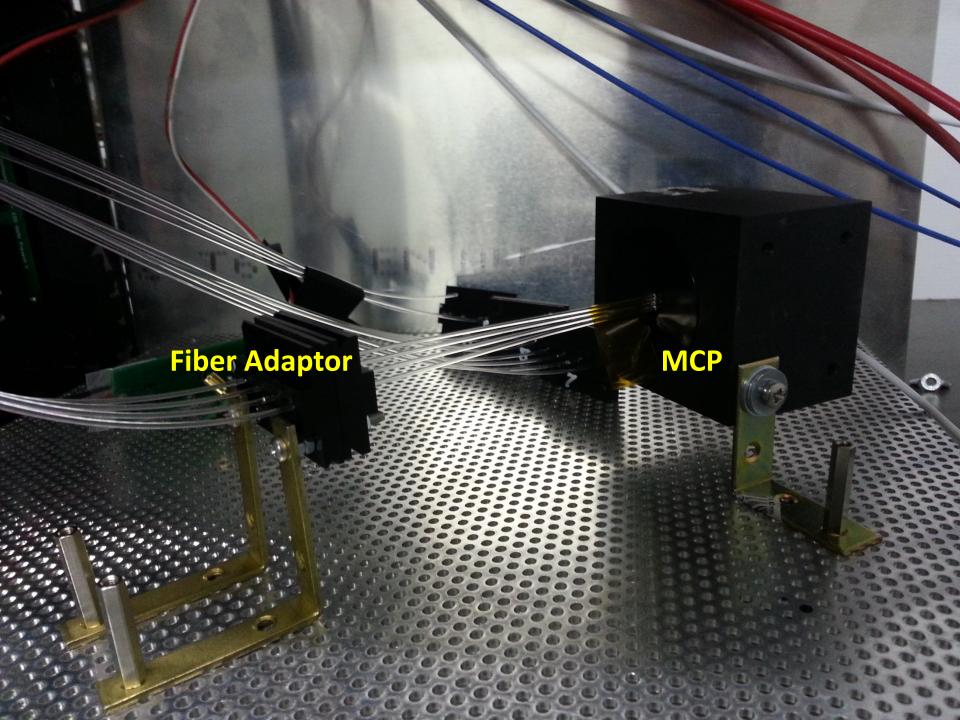
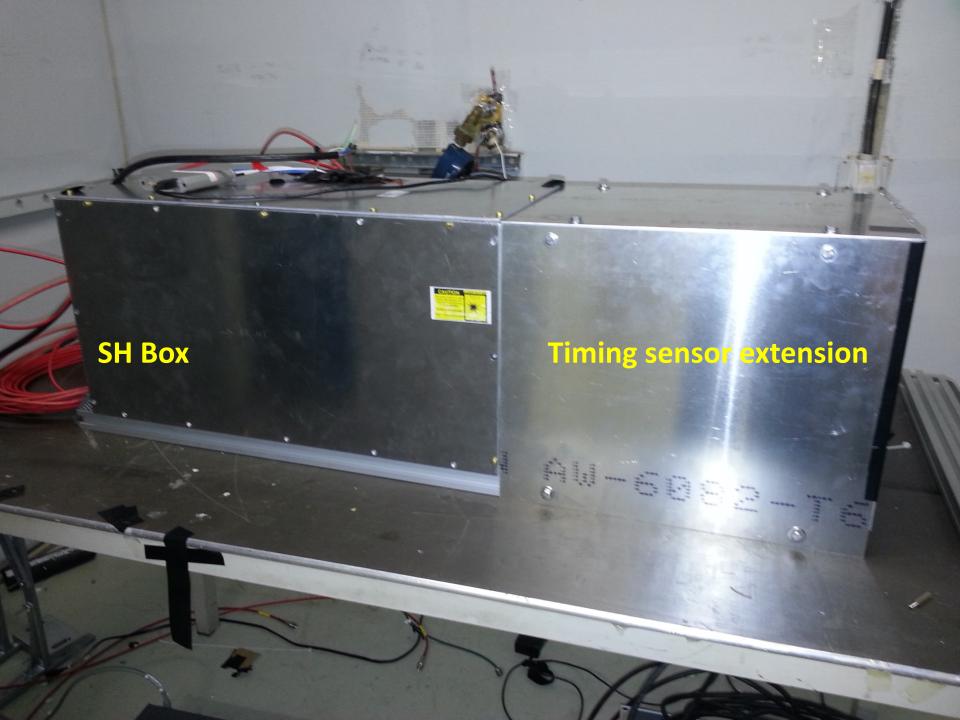
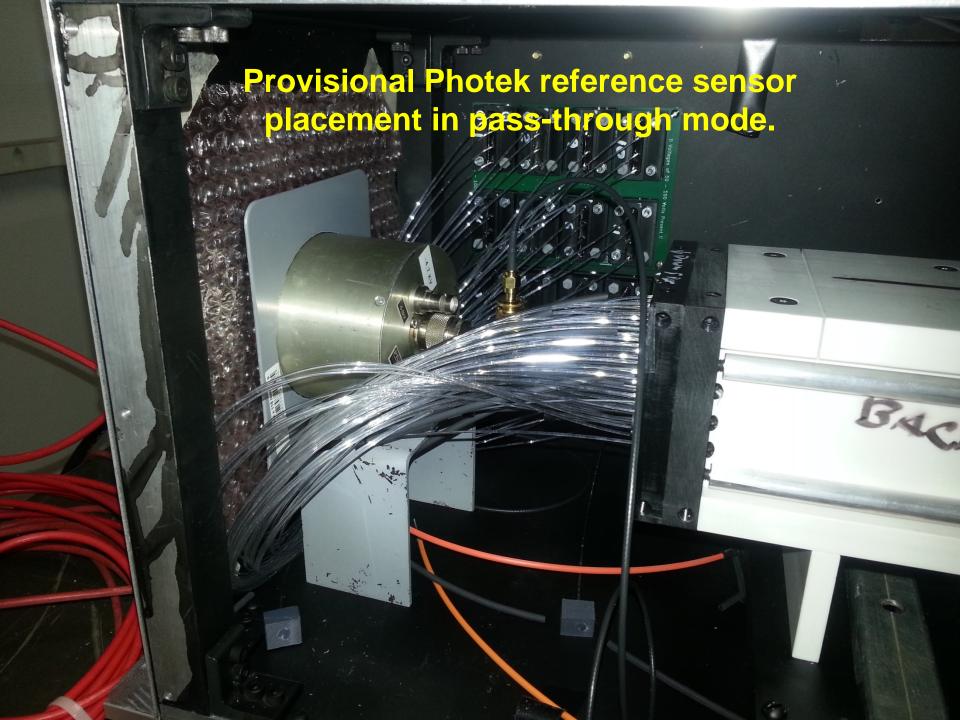
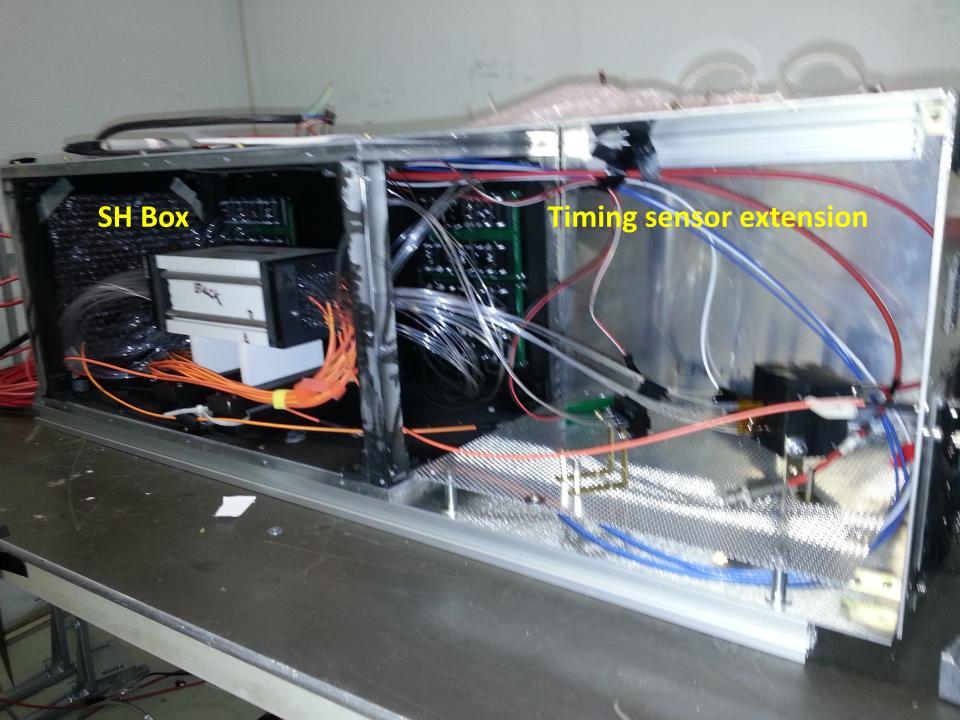
July SH Timing TB CERN

Adi









Test Beam Setup

Right CAEN HV Unit:

HV (red tape mark): Photek MCP, 4.7 kV, right CAEN HV unit

Left CAEN HV Unit:

CH0: New HV cable, Hamamatsu MCP, 3 kV max

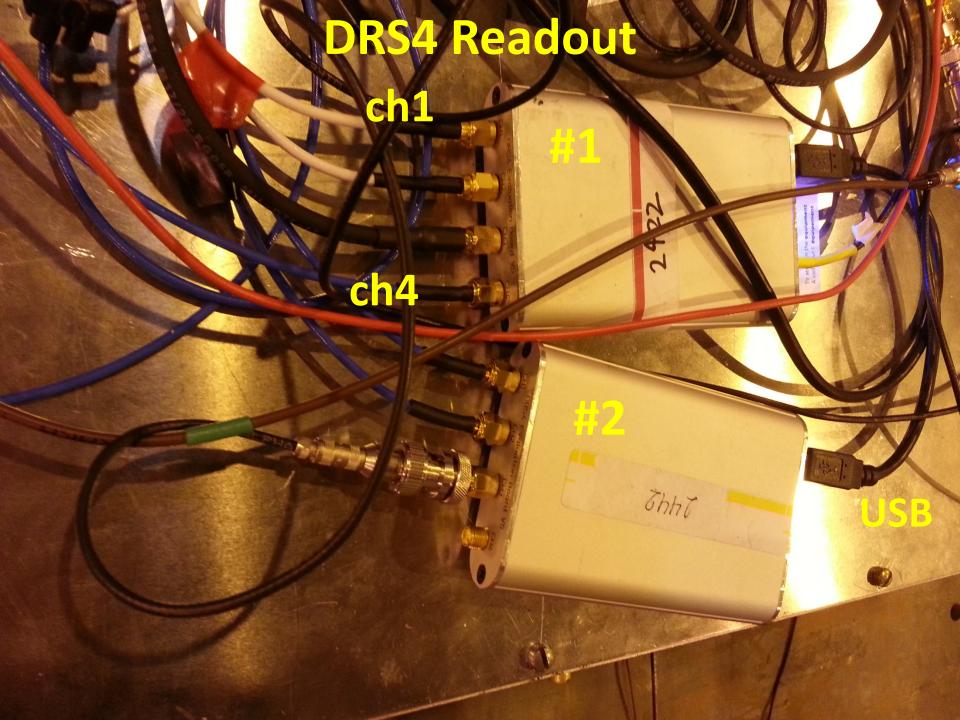
CH1: Old HV cable, Hamamatsu MCP, 3 kV max

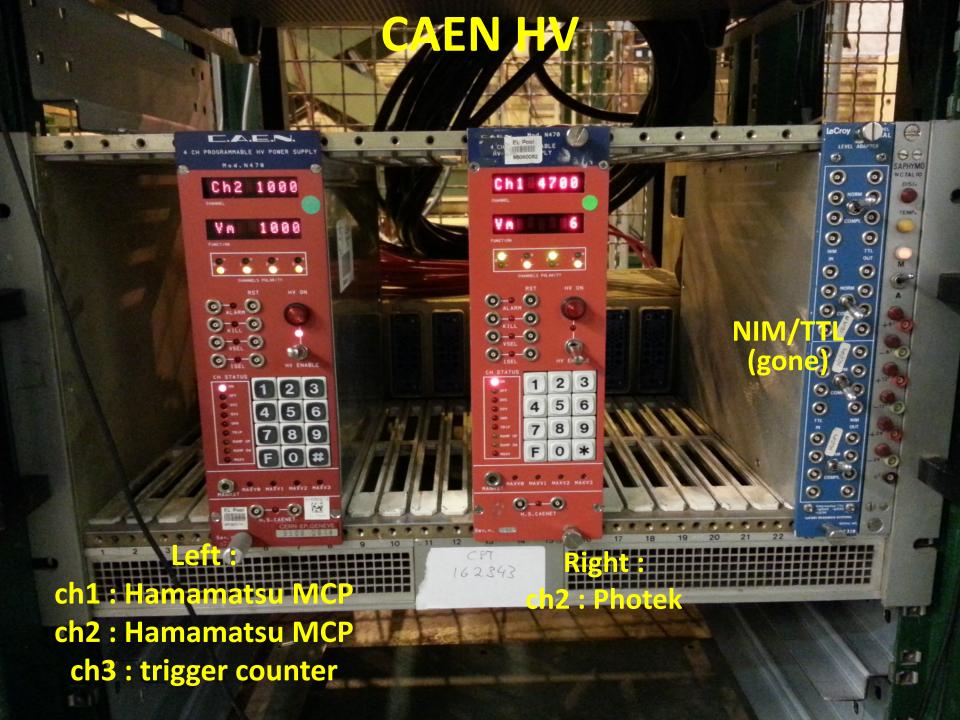
CH2 : small trigger PMT, 1 kV max

LV Unit:

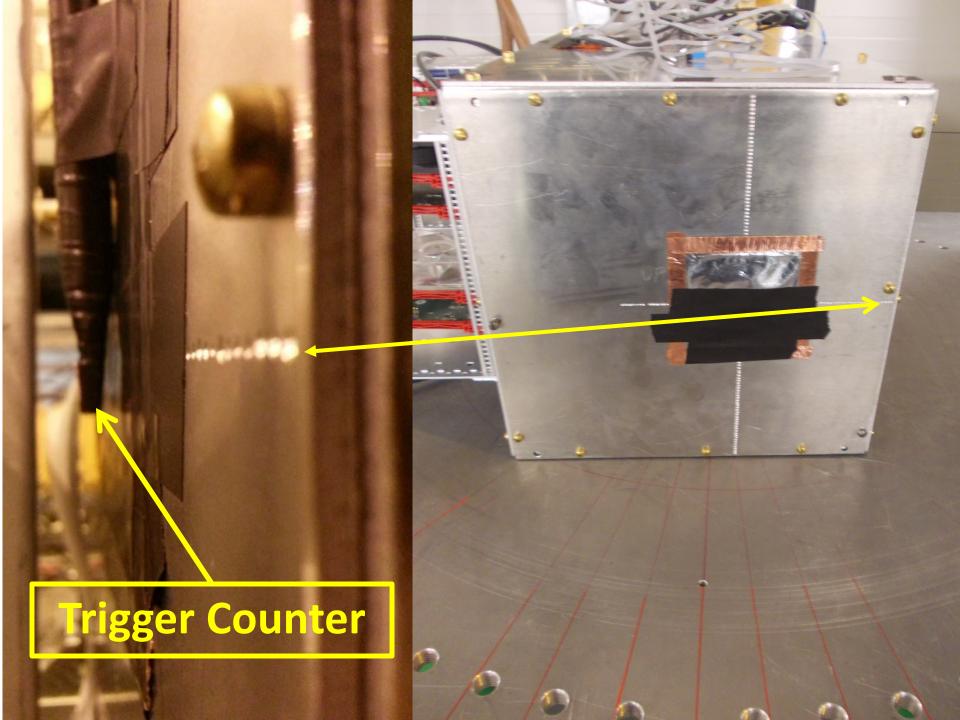
Blue LV cable : connected to plus on LV unit, SiPM, 70 V MAX

DRS4 readout:











Matrix Layout

View from the front

6	3	
7	8	

Test 1:

3: MCP1, four fibers, low gain, 0.4 V @ 2900 V with laser at H4, run 36

6: MCP2, three fibers, high gain, 0.25 V @ 2600 V with laser at H4, run 37

8 : small SiPM, one fiber, with cookie, 60 mV, run 38

7: large SiPM, one fiber, run 40

Photek test: Photek and Hamamatsu with direct laser, run 41

Test 2:

3: cell6, MCP1, four fibers, run 42, 2nd laser connector, 300 mv @ 2900 V, HV CH0

6 : cell 3, MCP2, four fibers, run 41, top laser connector, @ 2600 V, HV CH1

7: cell 7, large SiPM, CH4, run43, 3rd laser connector, 69.1 V, 75 mv

8 : cell8, small SiPM, CH3, run44, used 1st laser connector, 200 mv, 4 fibers

Test data taking

- Run 46: test run in H2 with muon beam, misaligned,
- Run 47: test run in H2 with muon beam, misaligned
- Run 48: muon run after alignment, muon signals in Photek (ch4) and Hamamasu (ch2)
- Run 49: Pho ch4, small scint ch3, hama ch1 and ch2, hama 3 kV, scint 1 kV, Pho 4.7, raised to 4.8 kV, then 4.9 at event 930.
- Run 50: second DRS, ch1 and ch2 are SiPMs, ch3 trigger from H4DAQ

Data Taking