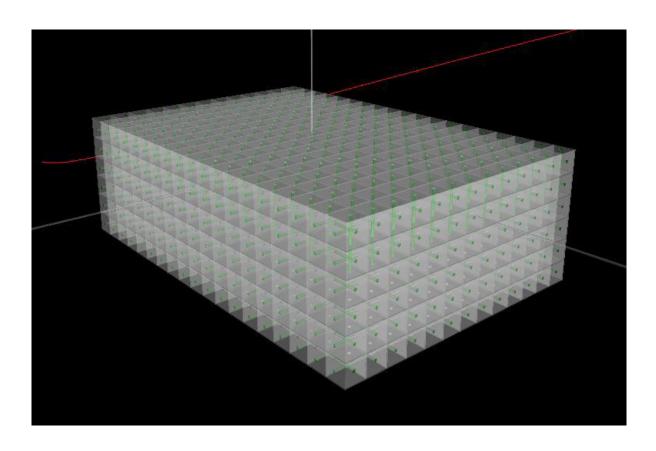
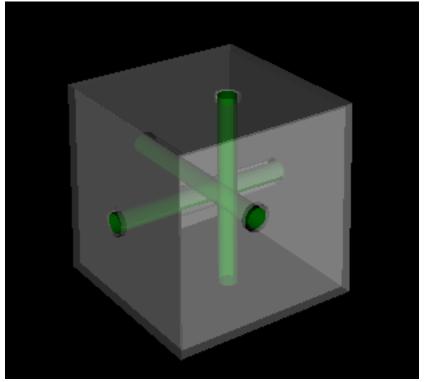
RE13 T2K sFGD (SuperFGD) Brief Status

5th July 2018

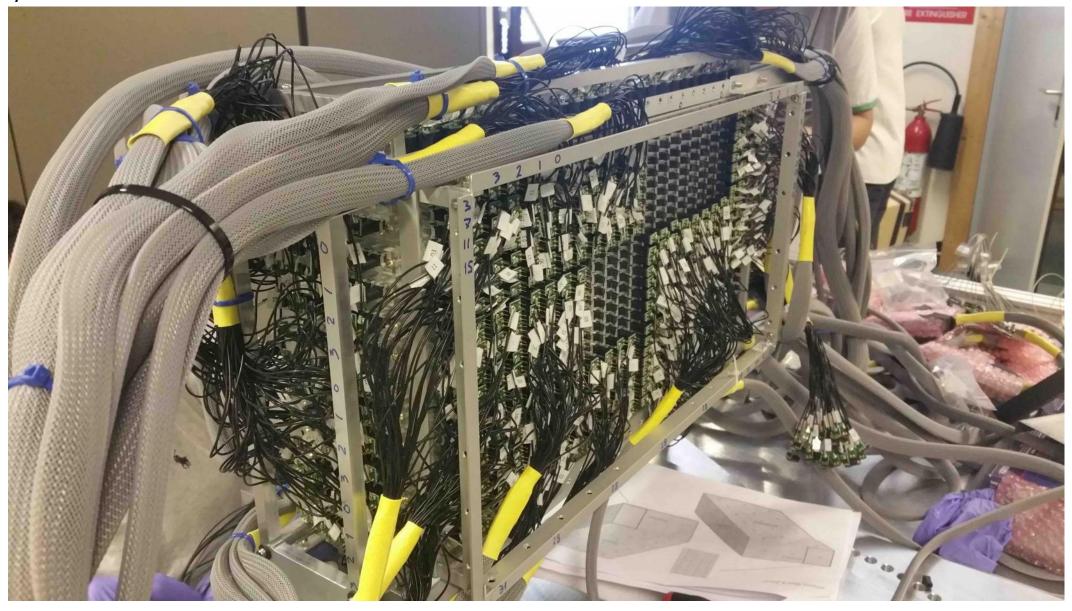
SuperFGD concept





Cubes: 1 x 1 x 1 cm
Three fibers through each cube

Partially assembled sFGD



Installation at T9 in the East Area



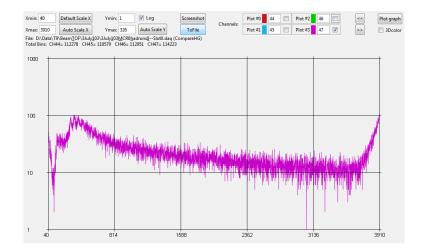
T9 control room: 4th July 2018, 14:20 CEST

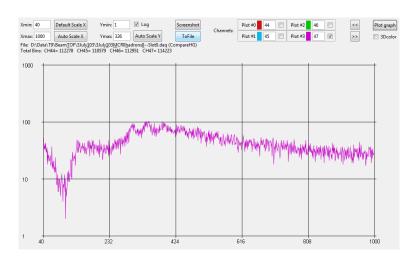
Organisation of shifts:

- 2 shifts/day: 8hr/shift
- 4-6 shifters per shift
- Probably move to 3 shifts/day over week-end



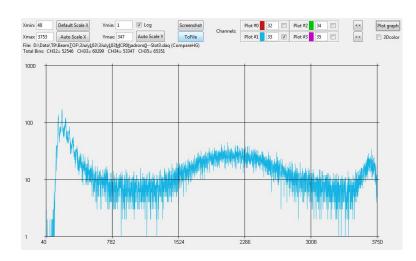
Type I (S13360-025CS)

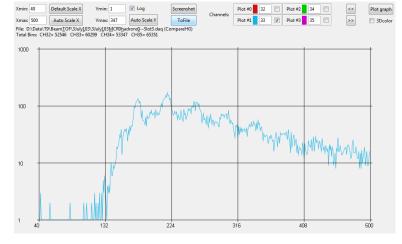




Fiber along z-axis

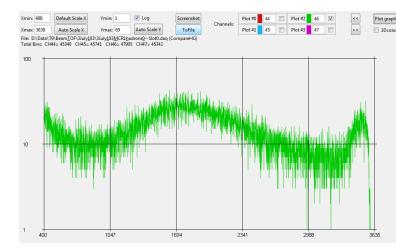
Type II (\$13081-050CS)





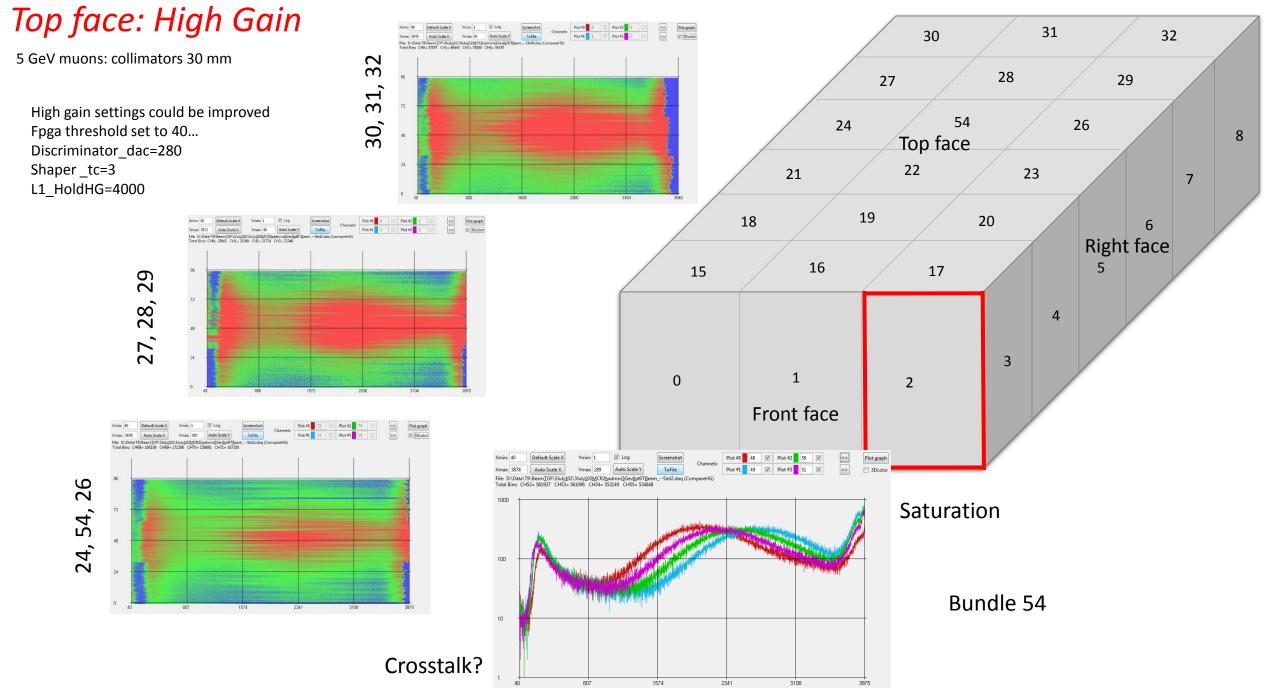
Fiber along y-axis

Type III (S12571-025C)



Set a high FPGA threshold=400 for the type III
Can always calibrate these easily from dark counts

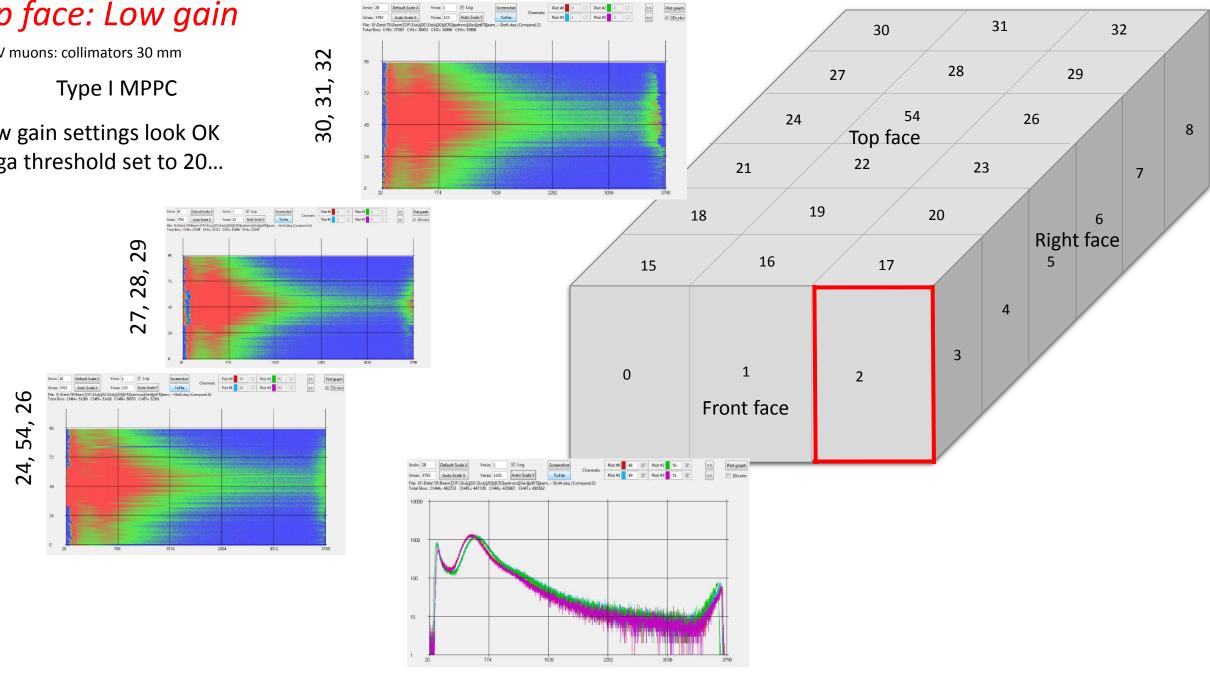
Fiber along y-axis



Top face: Low gain

5 GeV muons: collimators 30 mm

Low gain settings look OK Fpga threshold set to 20...



Plan over next few days

- Study performance of detector,
 - Light yield, calibration, event reconstruction.
- Scan beam momentum from 0.5 to 5 GeV/c
 - "Pion" and "muon" beam.
- Study stopping protons (dynamic range, crosstalk)
- Photon beam from Monday 9th July depending on progress with above:
 - Use MDX magnet.

