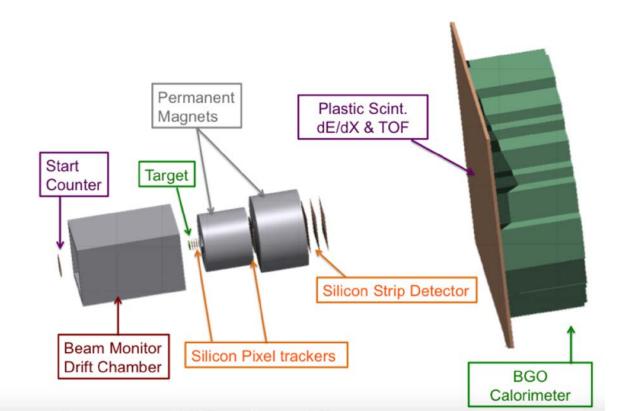


Status report

- Status
- plans

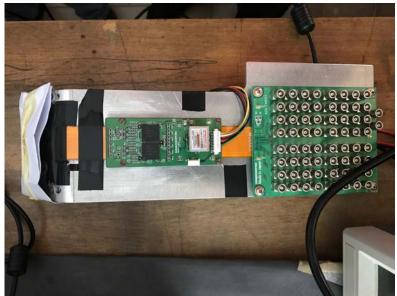
FOOT mechanics meeting Pisa, May3rd, 2018 P. Cerello / G. Giraudo INFN - Torino





3/4 BGO crystals (21/7 cm long) are available - borrowed from PADME





Test layout available (MPPC board + Digitizer) - borrowed from CMS

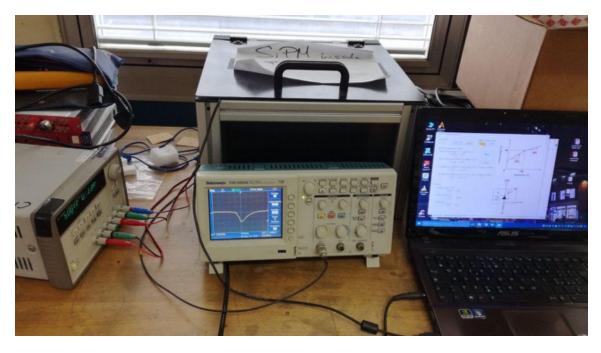




SiPM tiles received from FBK at the beginning of November

PCB adapter (FBK SiPM output to MPPC board input) designed by R. Arteche Diaz (CEADEN, Habana)





CMS test layout working in Torino

It will be used with the FBK SiPMs and the FOOT PCB soon



- 2018
 - Up to 800 L3 crystals being recovered (by end of May hopefully)
 - Transparency measurements @ CERN
 - It is not necessary to cut them. Is it useful?
 - Beam test with SiPMs @ CNAO
 - Test end of february with 50 um pitch SiPM tile
 - No signal saturation up to 120 MeV/A carbon ions
 - Very likely (but to be verified asap) that 15 um pitch SiPM will not saturate over the full energy range
 - Signal is uniform on the readout surface (so no need to read channels separately)



• 2018

- Likely configuration

- SiPM photodetectors
- 1 tile / crystal
- 1 channel / crystal
- 320 channels divided in 4 modules (80 channels / each)
- If we won't cut them
 - Forward surface: 2.2x2.2 cm2
 - Backward surface: 3x3 cm2
 - Length: 24 cm
 - Weight: 1184 g / crystal
- Test cut @ 15 cm will be measured @ CNAO asap