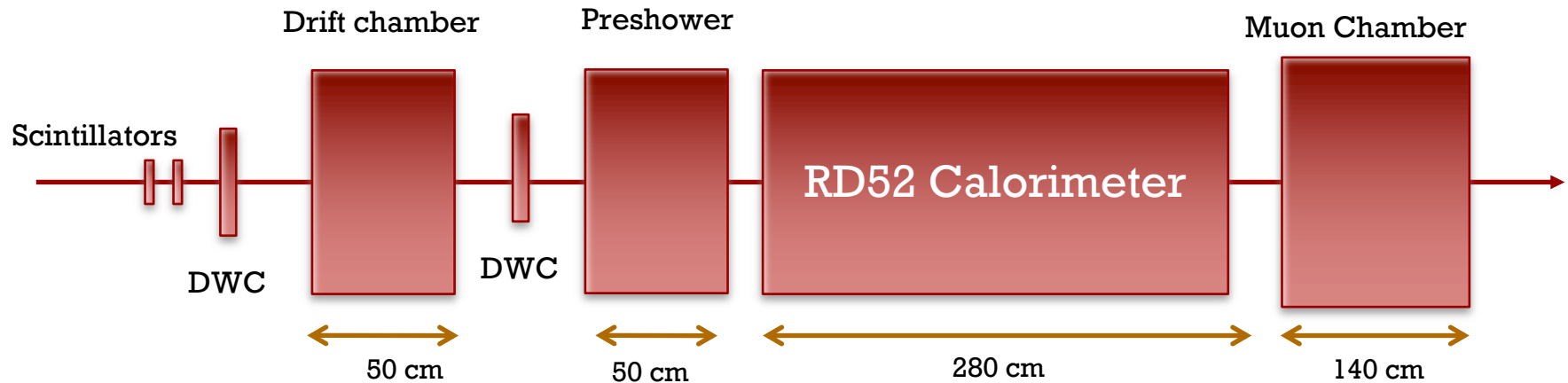




Outcome from survey in the experimental area

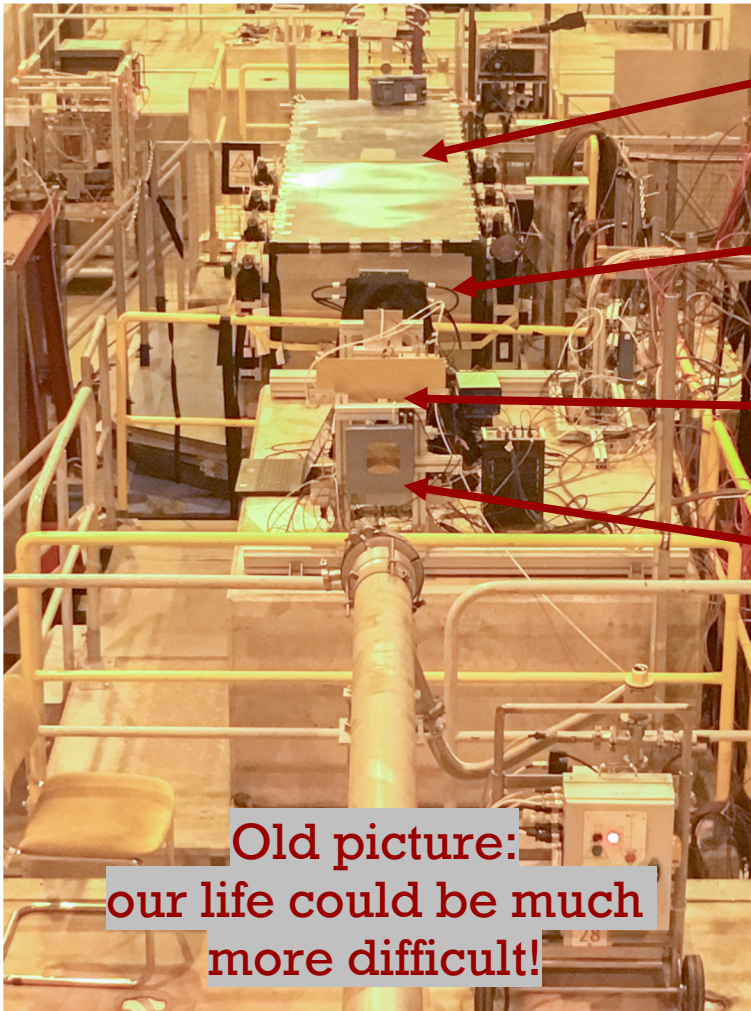
S. Franchino, P. Giacomelli, F. Grancagnolo, R. Santoro,, F. Tassielli

Setup schema



- Trigger with 2 scintillators in coincidence + 1 veto (if needed)
- 2 DWC (Delayed Wire Chamber)
- CEDAR (Differential Cherenkov detector)
- Drift Chamber Prototype
- Preshower with GEM
- Few different Dual Readout prototypes
 - RD52 calorimeter with PMT readout
 - RD52 calorimeter with longitudinally displaced fibers
 - Small calorimeter module with SiPM readout
- Muon chamber 1 layer GEM + 2 layers μ RWell

Control room: HNA – 468 (0887-1- Q70)



RD52 calorimeter (already installed in the area)

Some space in front of the calorimeter for the preshower

Place for the drift chamber ($\approx 2m$)

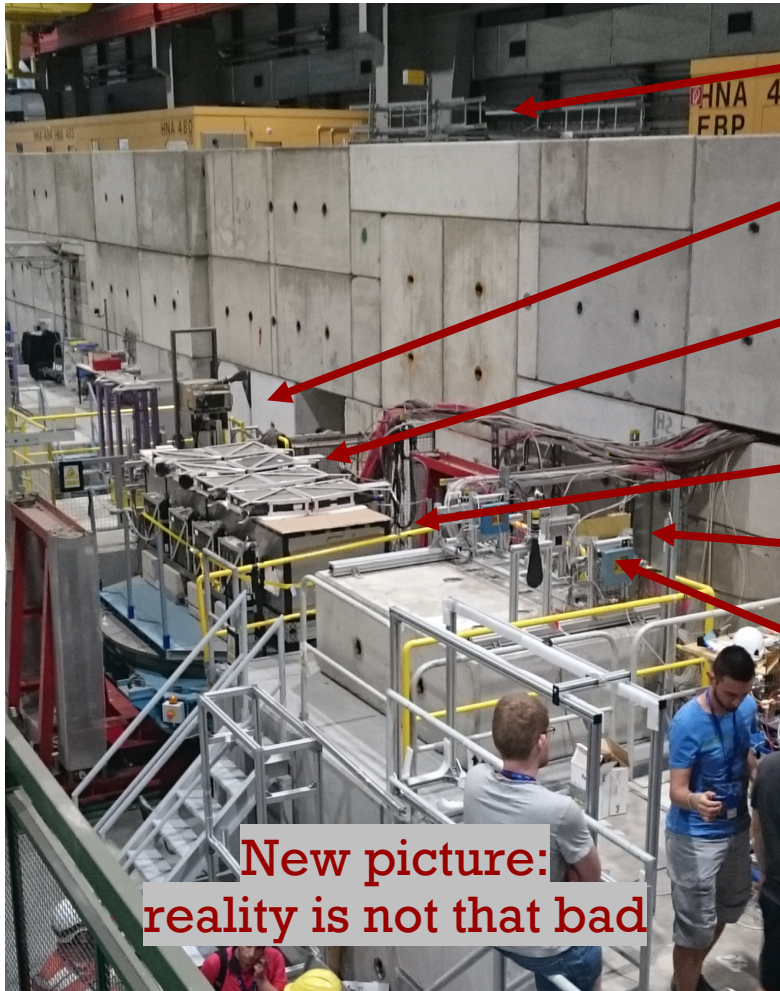
Trigger + Delay Wire Chamber (DWC) already installed

Old picture:
our life could be much more difficult!

Space for electronics, services laptop for slow control and DaQ will be verified during the survey (27-June)

EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

Control room: HNA – 468 (0887-1- Q70)



Gas delivery

Space for the muon chamber

RD52 calorimeter (already installed in the area)

Some space for the preshower

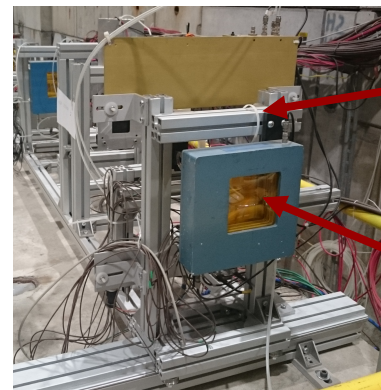
Space for the drift chamber

Trigger + Delay Wire Chamber (DWC) already installed

New picture:
reality is not that bad

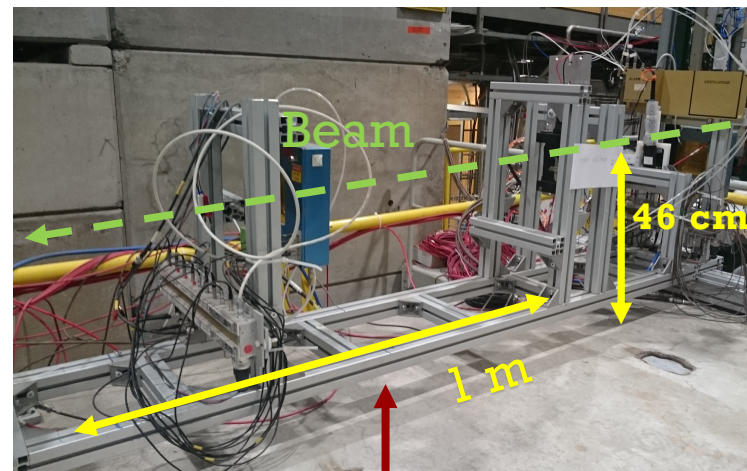
EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

Control room: HNA – 468 (0887-1- Q70)



Trigger

DWC



The space for the drift chamber

EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

6

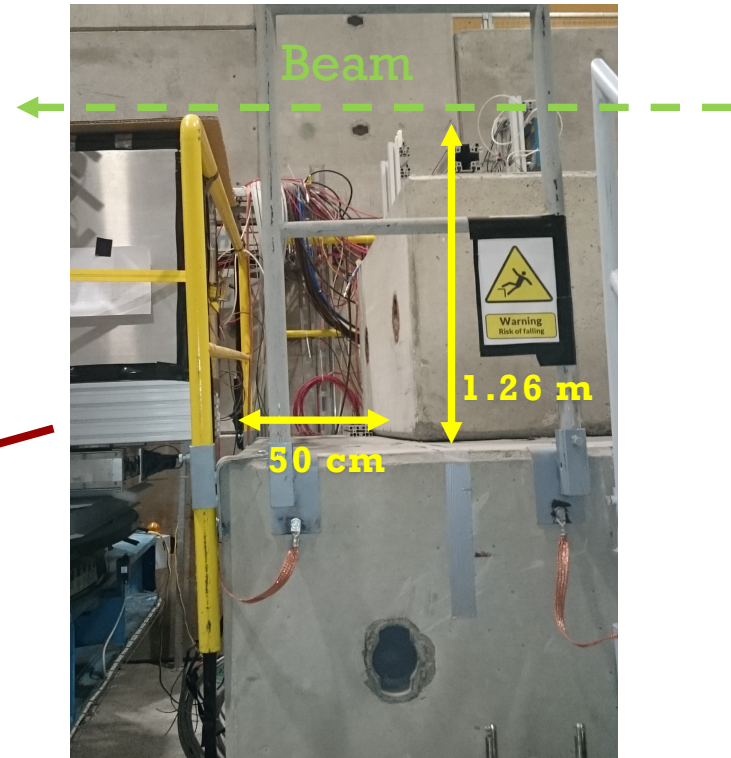
Control room: HNA – 468 (0887-1- Q70)



- 1 RAC for the Drift chamber. Space available close to the detector is 50cm. It should be enough
 - 1 Crate Camac
 - 1 Crate VME
- The HV module will be installed in the RAC used by the preshower + muon chamber

EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

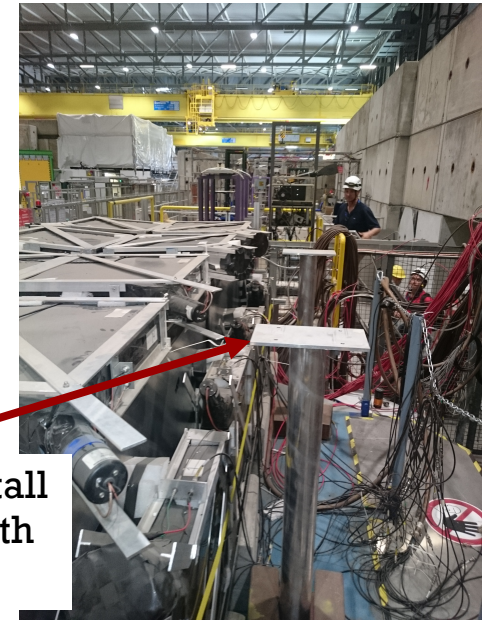
Control room: HNA – 468 (0887-1- Q70)



Downstream the Drift chamber and in front to the calorimeter for the Preshower

EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

Control room: HNA – 468 (0887-1- Q70)



Possible place where to install the calorimetric module with displaced fibres



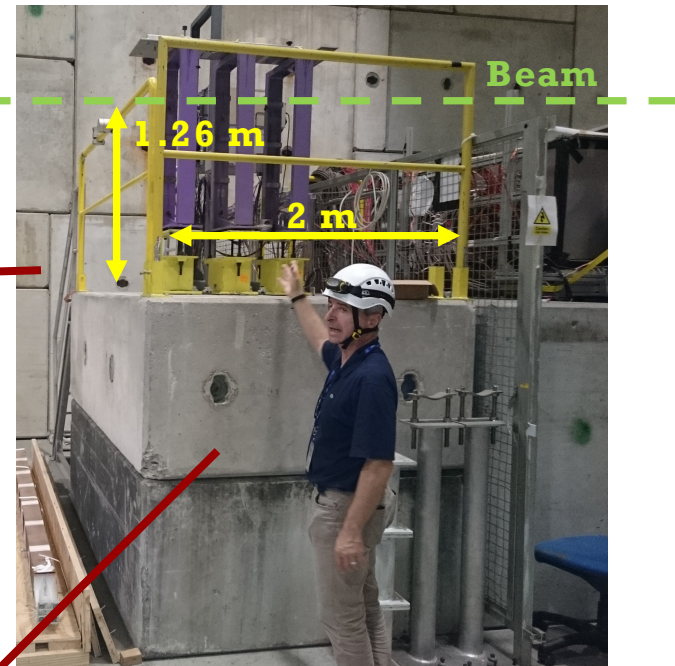
If so, the structure has to move aside ($\approx 1\text{m}$?) to center the module in the beam line

EHN1 – H8 – C (door 168, between ATLAS tile and Totem)

Control room: HNA – 468 (0887-1- Q70)



Space for the muon chamber downstream the calorimeter



1 RAC to install the electronics for the preshower and mu-chamber + HV power supply

Control room: HNA – 468 (0887-1- Q70)

Place where to install the gas bottles (?? m from the detector)



ArCO₂CF₄: requested by preshower and muon chamber

He/Isobutene (90/10): requested by drift chamber



Schedule

- Access to the Area since Aug 29: Free access with beam dumped upstream (beam dump before PPE168)
- Safety inspection: 5 – Sept 12:00
- Alignment service: 5 – Sept 14:00
- Beam on: 5-Sept at 18:00
- No machine development between us and the next users

- There is enough space to install all subsystem
- Each subsystem will arrive at CERN with his own support structure to be place onto the platform / concrete block
- The use of mixture He/Isobutane is something that has to be followed up quite carefully due to the procedure requested to use flammable gas in the area
- It is better if the experts can come at CERN 1 week in advance (i.e. 29-Aug) to install and to test all systems. We have to profit for the free access