



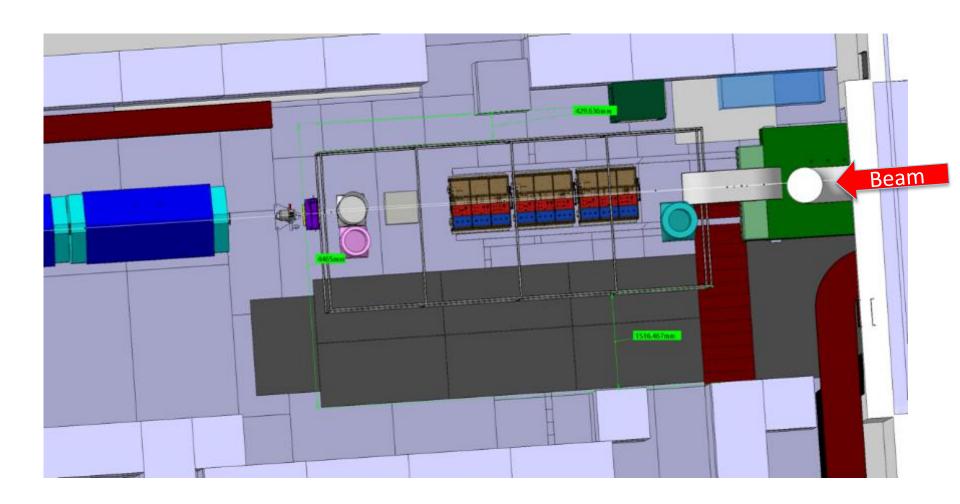
MUonE mechanical stability requirements

Carlo Ferrari

INFN-Pisa & CNR-INO & CERN c.ferrari@cern.ch carlo.ferrari@ino.cnr.it

MUonE installation

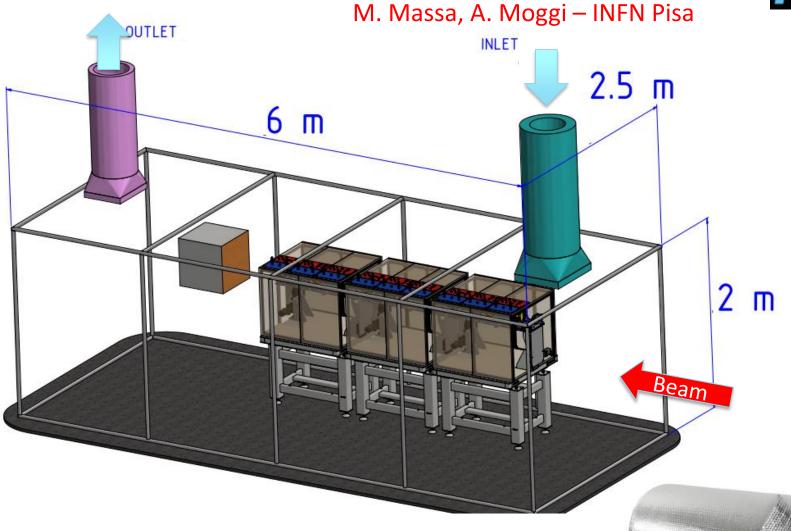






The «tent»: The integration model

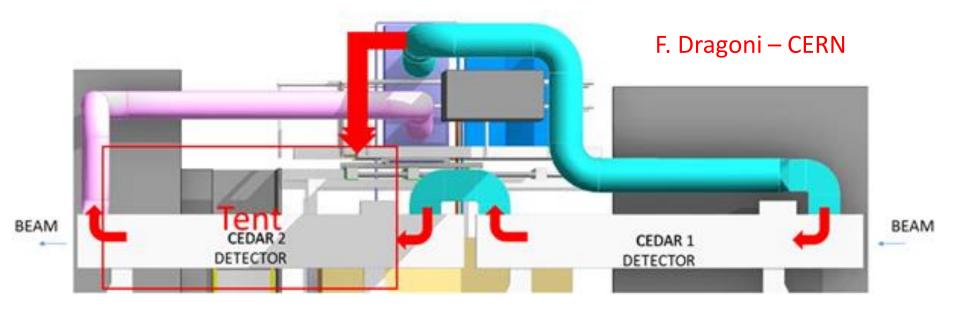




Insulating material: Double Bubble Insulation

The «tent»: The integration model





- \rightarrow Air T = 18 °C (The tracking stations are set to 18 °C)
- Mixing ventilation
- Duct modification
- C&V will take care of it (two months notice)



Preliminary plan



We need to install:

- The supports for tracker stations and the calorimeter (Thorlabs frames + DESY table): 1 day
- The structure of the tent: 1 day
- The new ducts: 2-3 days (two tasks: install scaffolding, install new ducts)
- The tracker stations and the calorimeter: 1 day



Preliminary plan



- 2023 beam time has not yet allocated for MUonE
- It will be 2 or 3 weeks
- There is a risk of spending most of the beam time on installation
- I would like to install what is possible during MD periods leading up to our beam time.
- Thus, we need to start the installation a several weeks in advance (if CEDAR zone is free)



Preliminary plan



Sequence, assuming beam time in August:

- The supports for tracker stations and the calorimeter (Thorlabs frames + DESY table): early June
- The structure of the tent: late June
- The new ducts: July (2 MD for the two tasks)
- The tracker stations and the calorimeter: day 1 of beam time



Long term goal



- First of all we have to write the TDR and then get the approval of the experiment
- Preliminary physics measurement with 10 stations before the LS3 (2 months beam time)
- Final experiment with 40 stations, few months of data tacking, after the LS3 (6 months beam time)



The end





