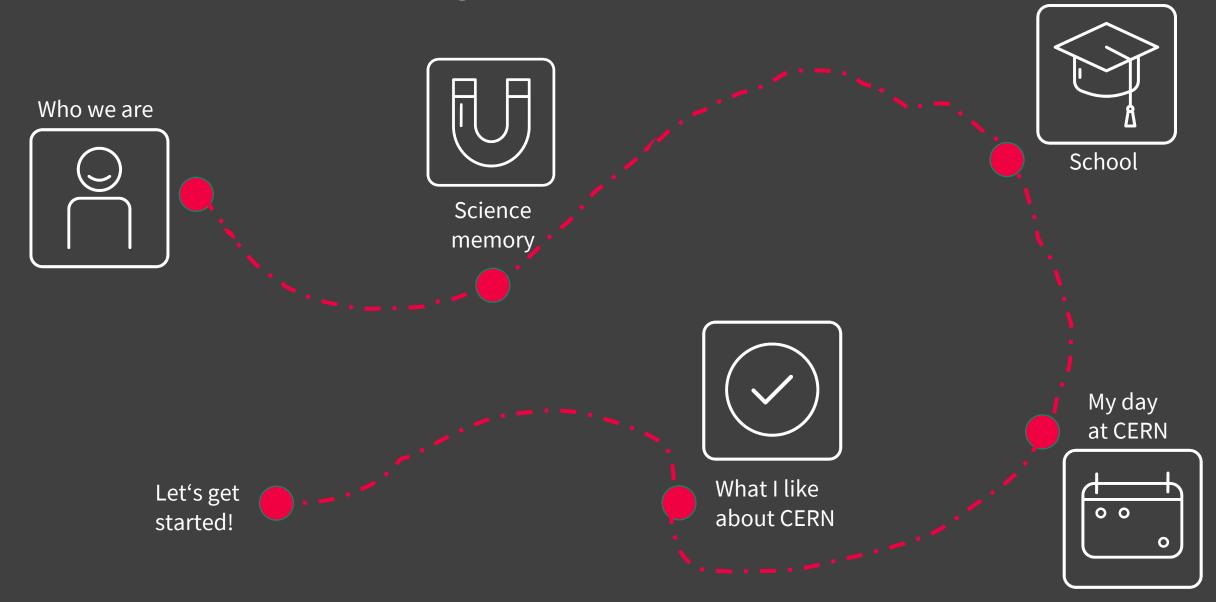




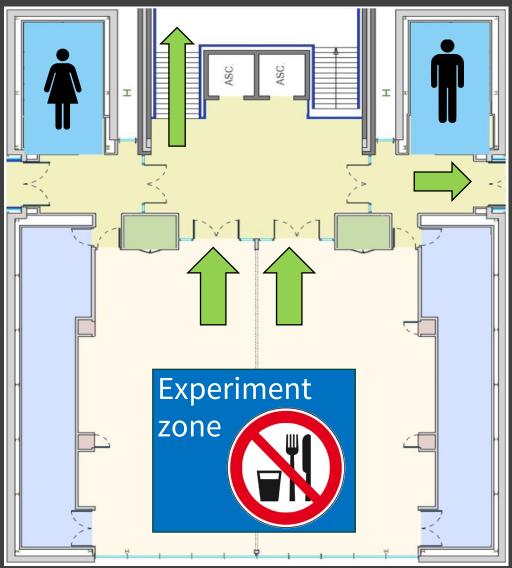
Lab workshop Power of Air

Investigate how balloon hovercraft allow for heavy things to be moved easily!

We are your guides for this workshop



Emergency exits and general rules



In case of an evacuation alarm:

- Leave your bags behind
- Follow guides to the nearest emergency exit and assembly point
- Wait for the CERN fire brigade

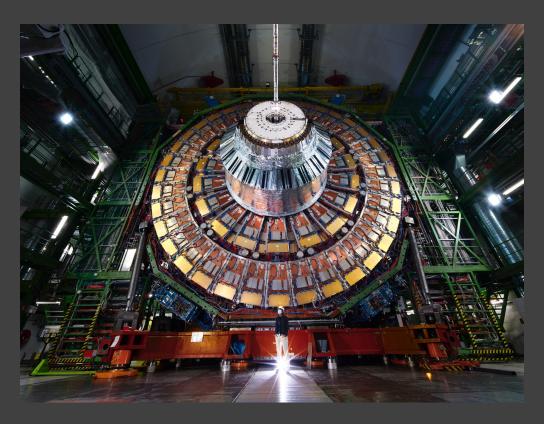
Toilets

Eating & drinking

Pictures



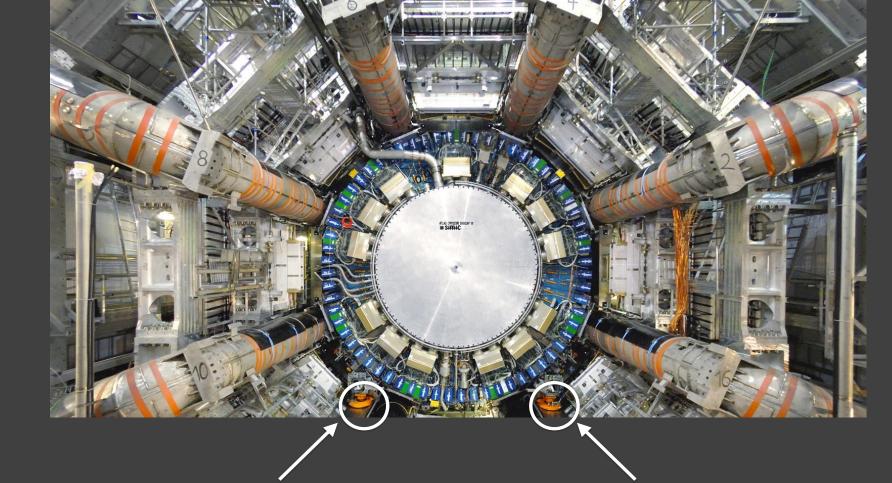
How do you move a detector slice of 1000+ tonnes?



How do you move a detector slice of 1000+ tonnes?



CERN Link: Heavy detectors at CERN are moved on air pads (= hovercraft)





CERN Link: Heavy detectors at CERN are moved on air pads (= hovercraft)

Video



<u> https://youtu.be/KNu-DFgJT-o</u>

Health & Safety



1 balloon per person



Air pads are individual

Experimental Phase 1

- 1. Explore different air pads.
- 2. Investigate different surfaces.

All done?

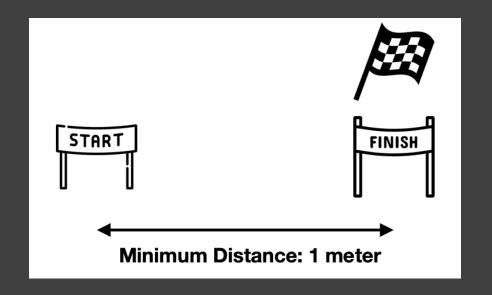
1. Be creative: create your own air pad game!



Experimental Phase 2

1. Put as many bricks on as you can.

2. Can you think of different designs?

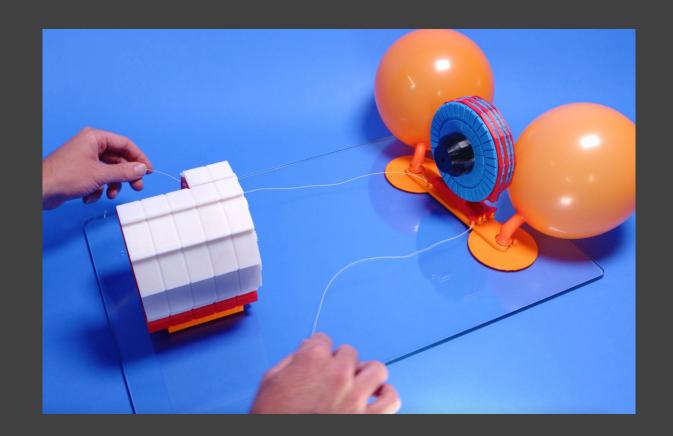


All done?

Team up with each other to build multi-air pad designs!

Experimental Phase 3

- 1. Design a system to close a 3D-printed CMS.
- 2. Mission: Close it from at least 30cm away.









DIY air pad at Science Gateway labs

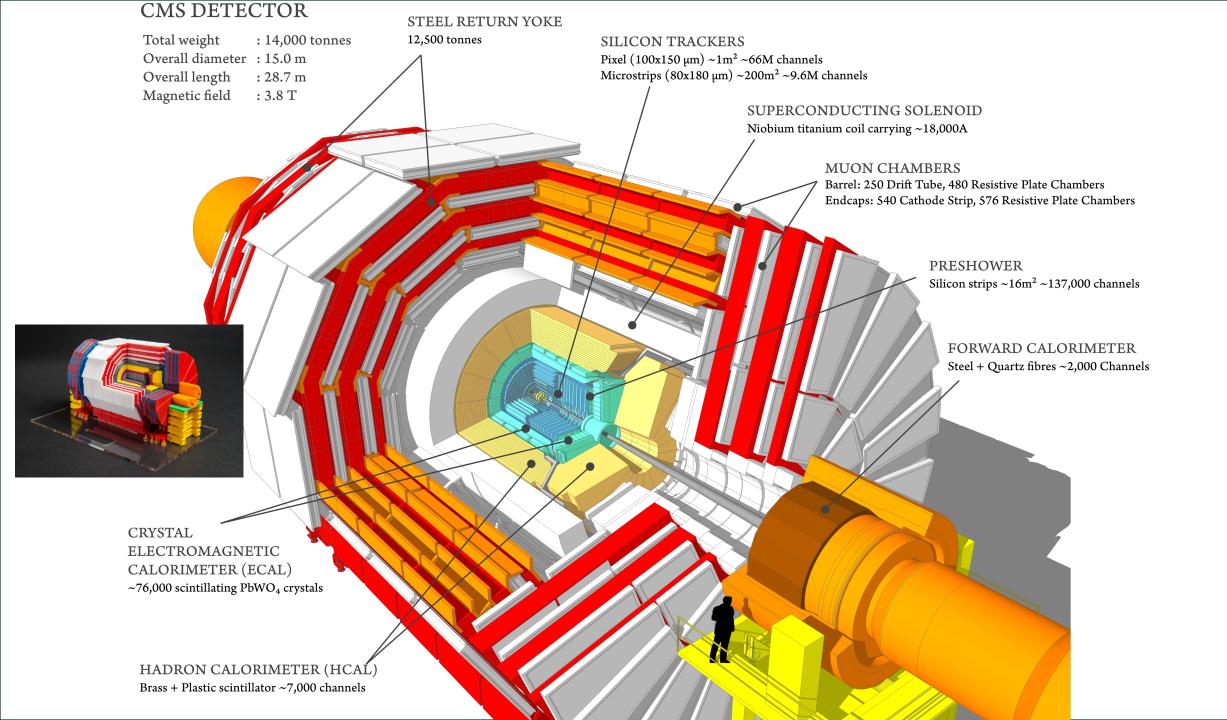
Why not try to build your own at home?





Lab workshop Power of Air

Thanks for exploring with us!



Detector air pads







