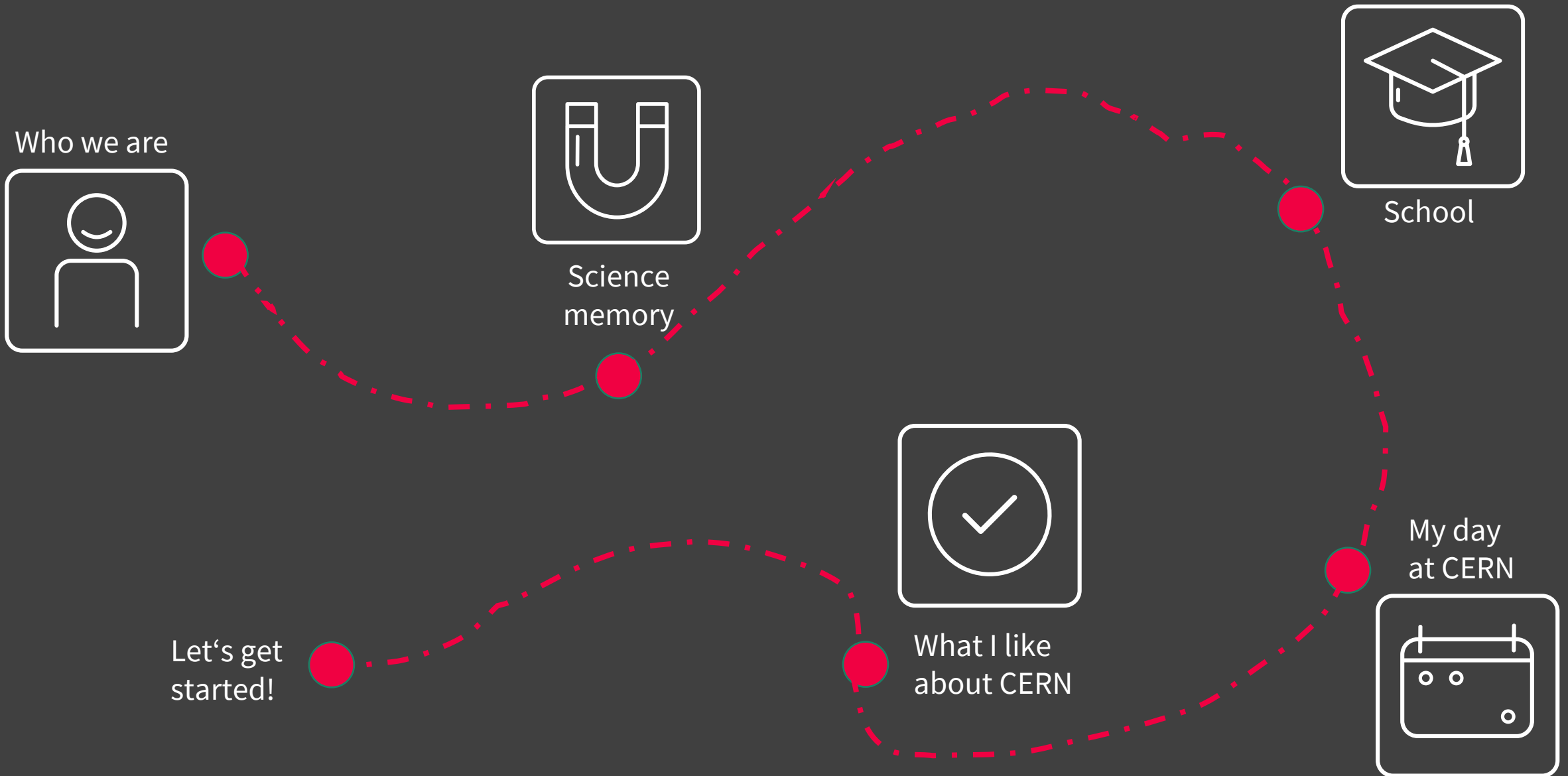


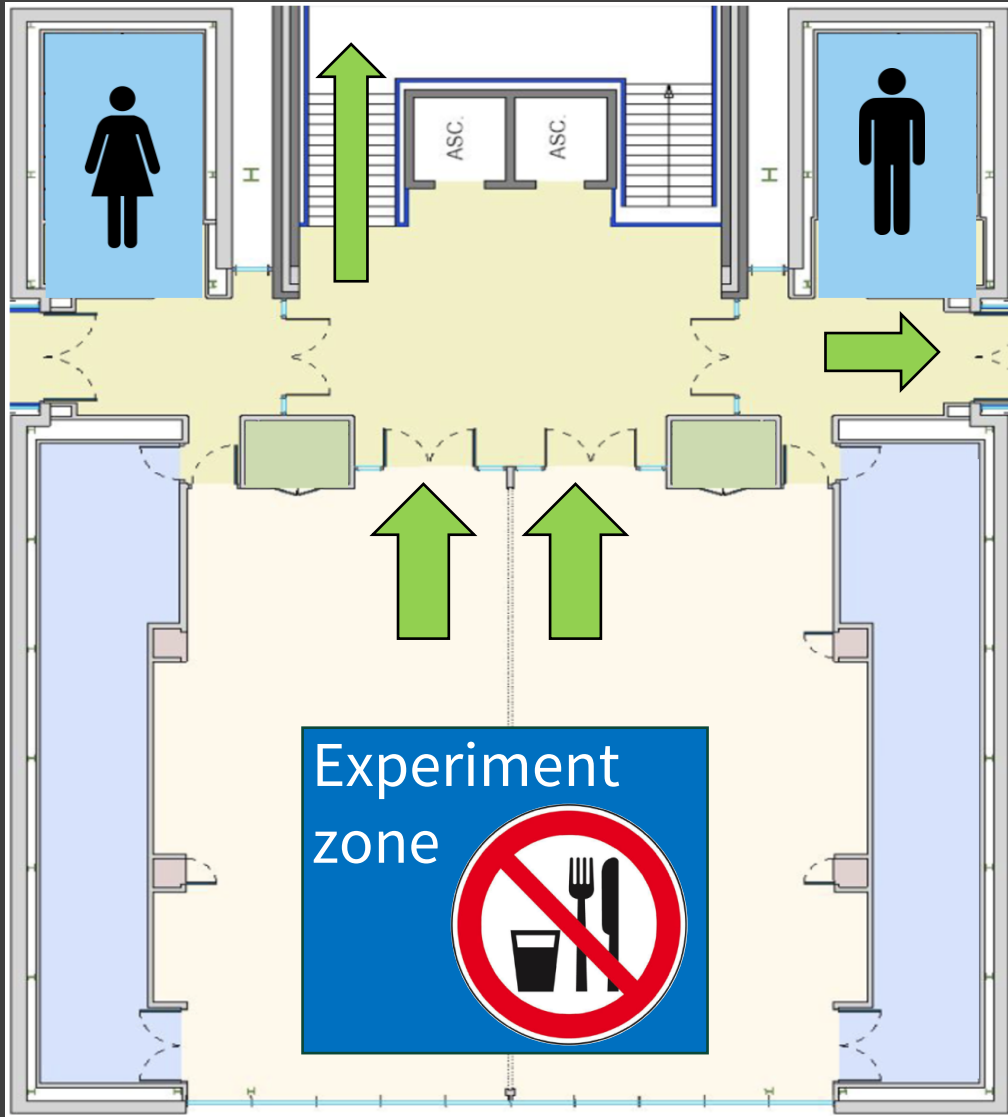
Lab workshop **Seeing the Invisible**

Learn how to conduct experiments and make your own scientific models of invisible structures!

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

No open flame / No smoking



Toilets



Eating & drinking



Pictures

#CERNScienceGateway

Seeing the Invisible

Learn how to conduct experiments and make your own scientific models of invisible structures!

Experimental Method

1. Roll balls in.
2. Draw model.
3. Repeat to be more accurate.

All done?

1. Check your model with a guide.
2. Try out a new invisible obstacle!

Rules

- Ball detectors



- No eye detectors



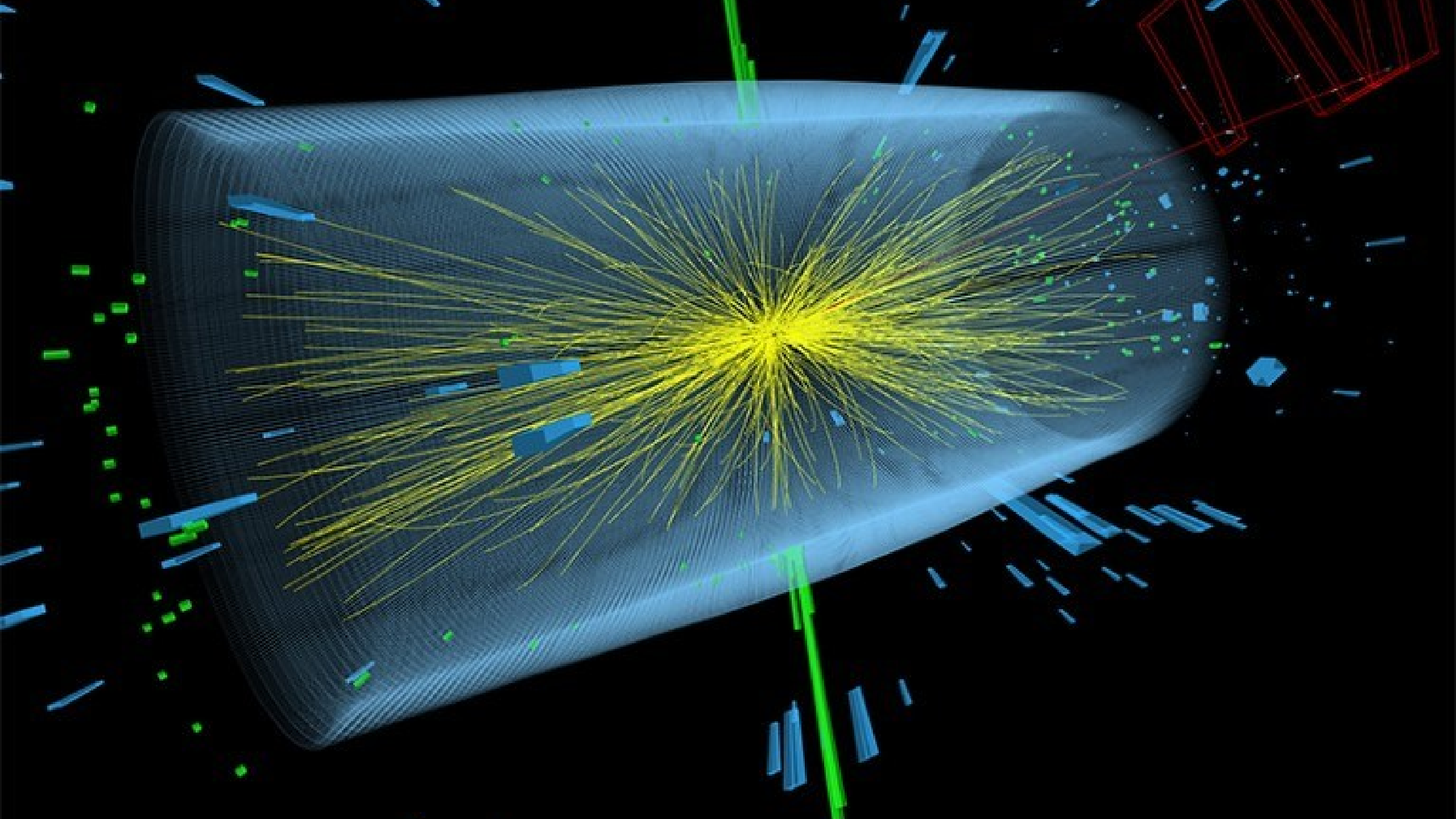
- No hand detectors



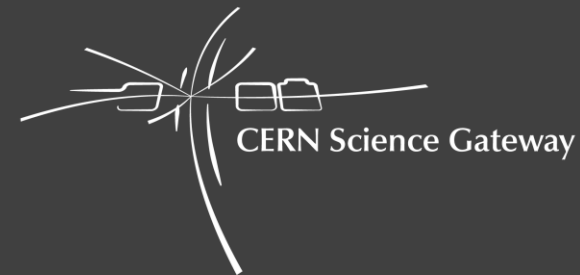
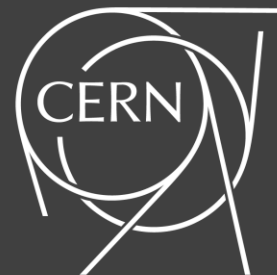
Seeing the Invisible – CERN link

Huge detectors at CERN measure a lot more invisible properties!





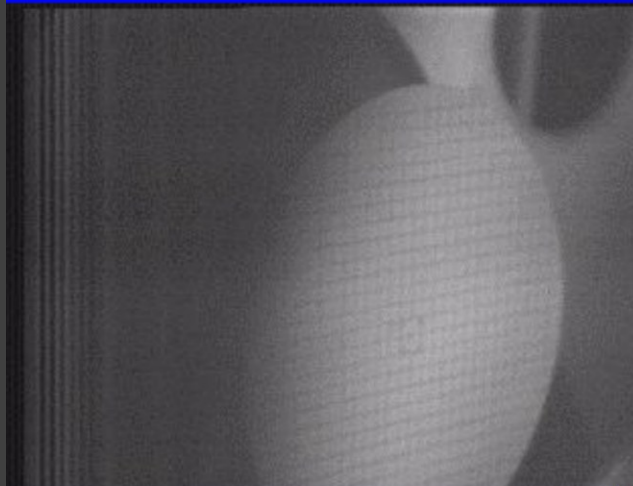




Lab workshop **Seeing the Invisible**

Thanks for exploring with us!

How we “see” the beam



Results for V75

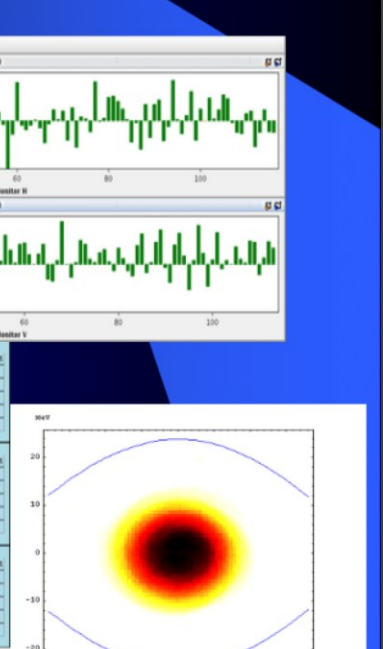
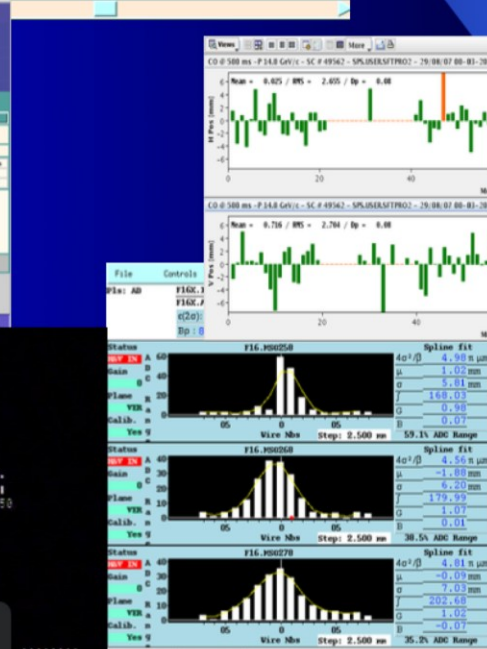
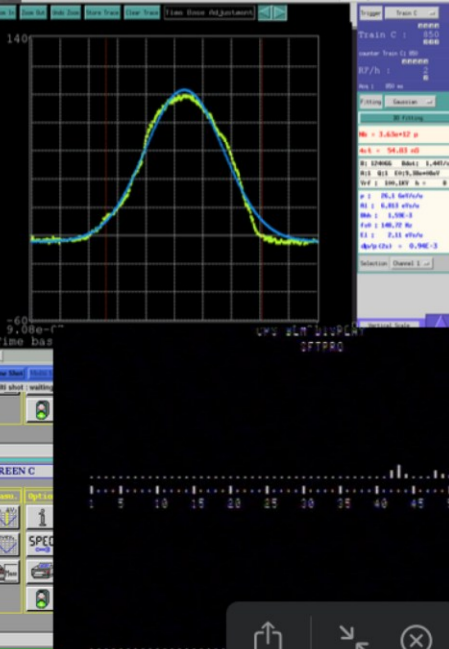
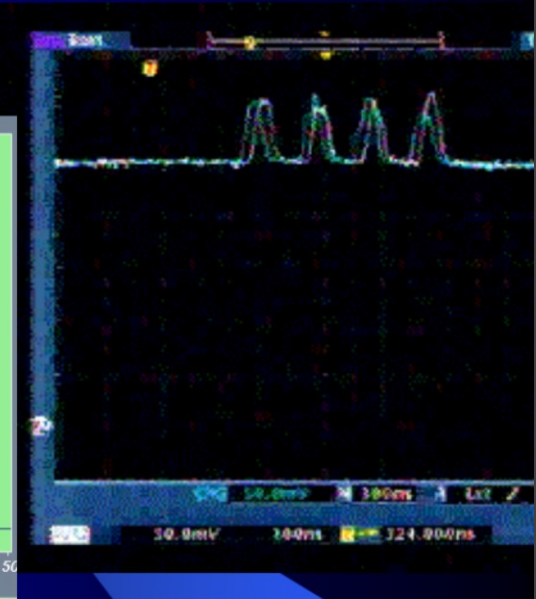
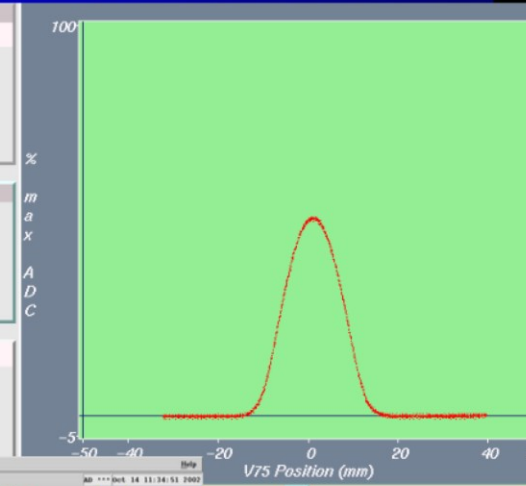
At C Pulse :	195
(2s) (mm.mrad)	8.05
(2s) (normalised)	18.22
measured (mm)	19.33
Centre of Mass (mm)	1.09

Measurement Parameters

At C Pulse :	195
Pulse (IG Train)	1011
(GeV/c)	2.12
(E10)	2110.75

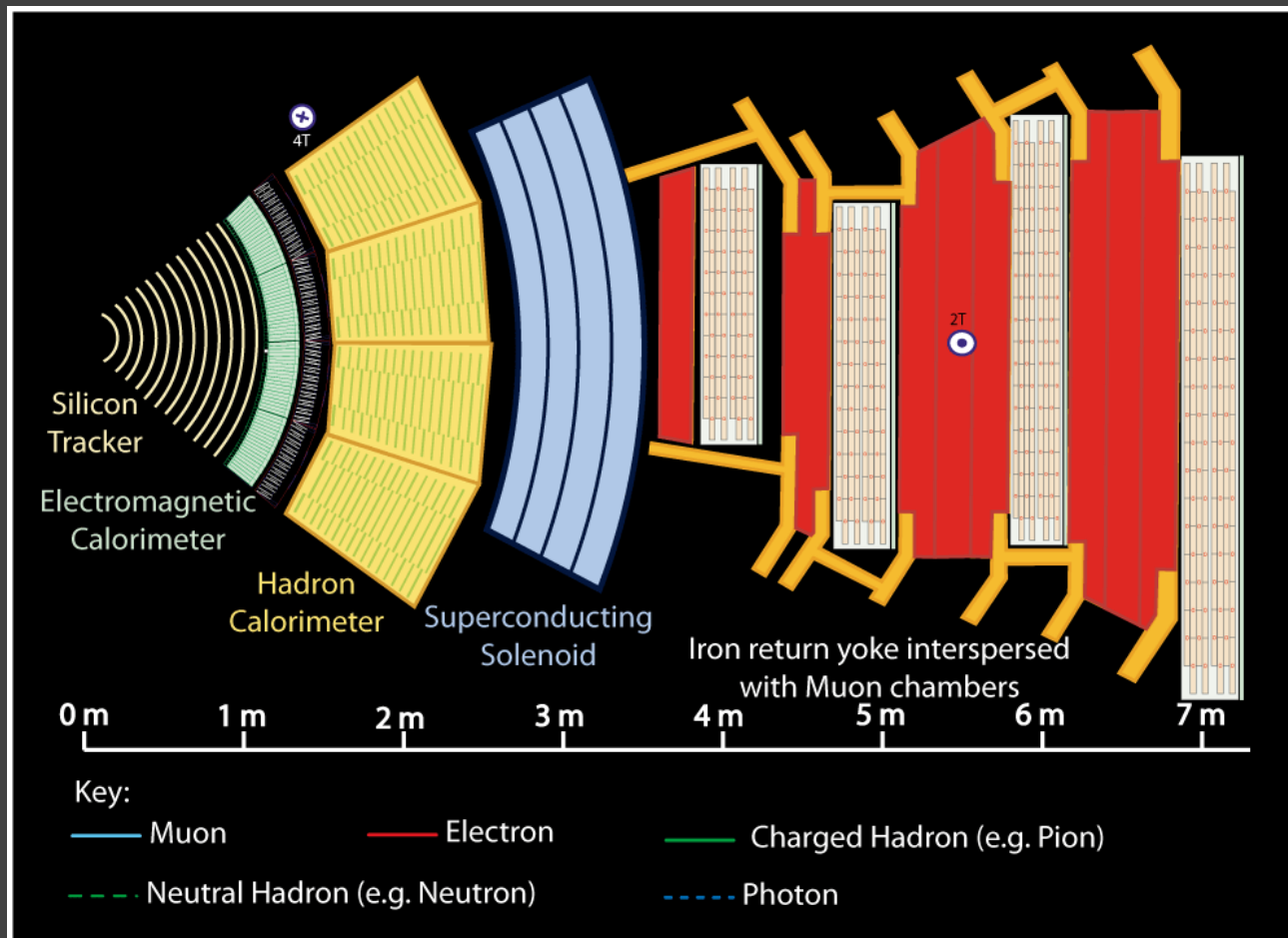
Device : V75

M Voltage (V)	559
Cent. Transmission	100%
(m)	11.6

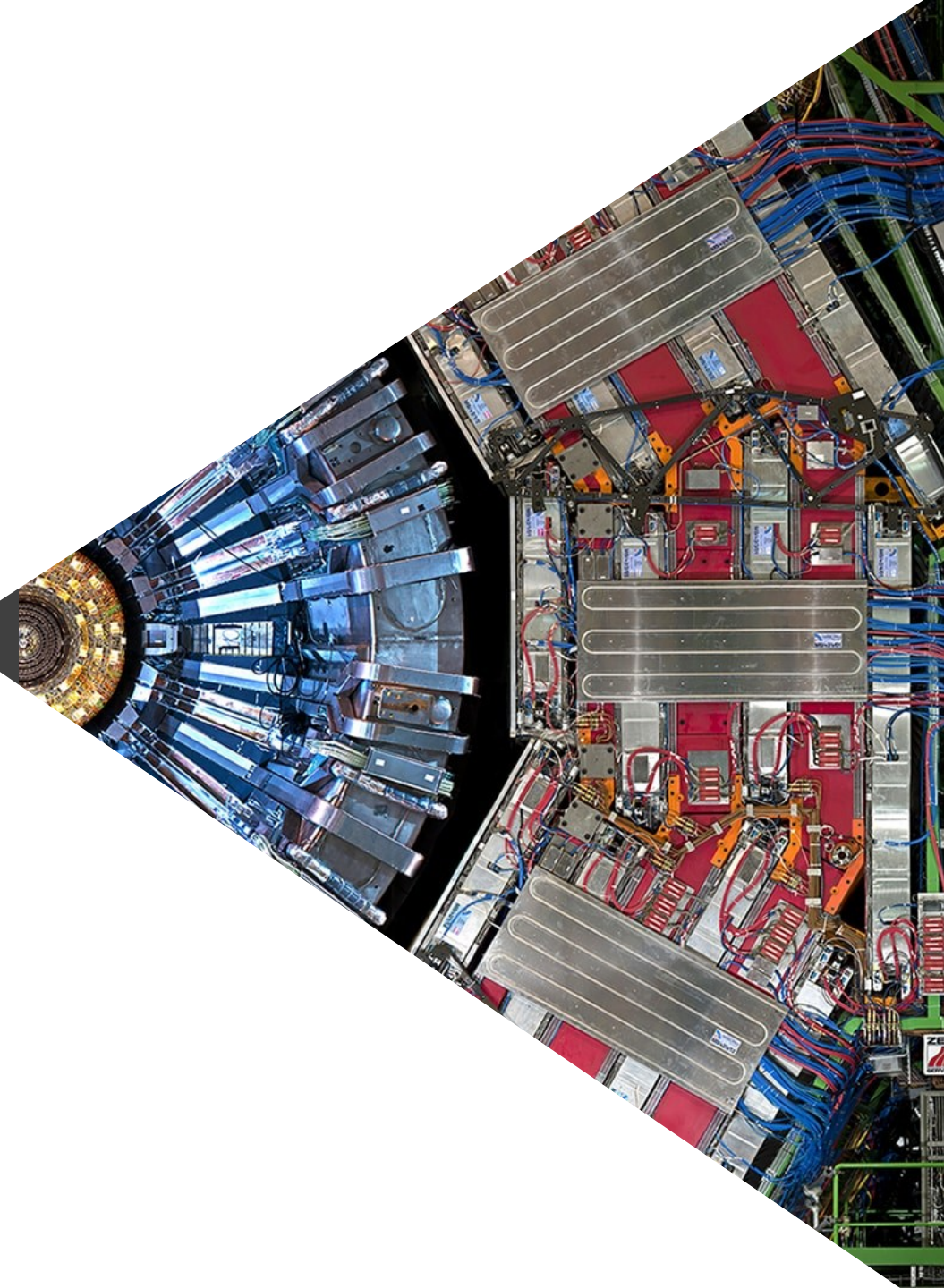


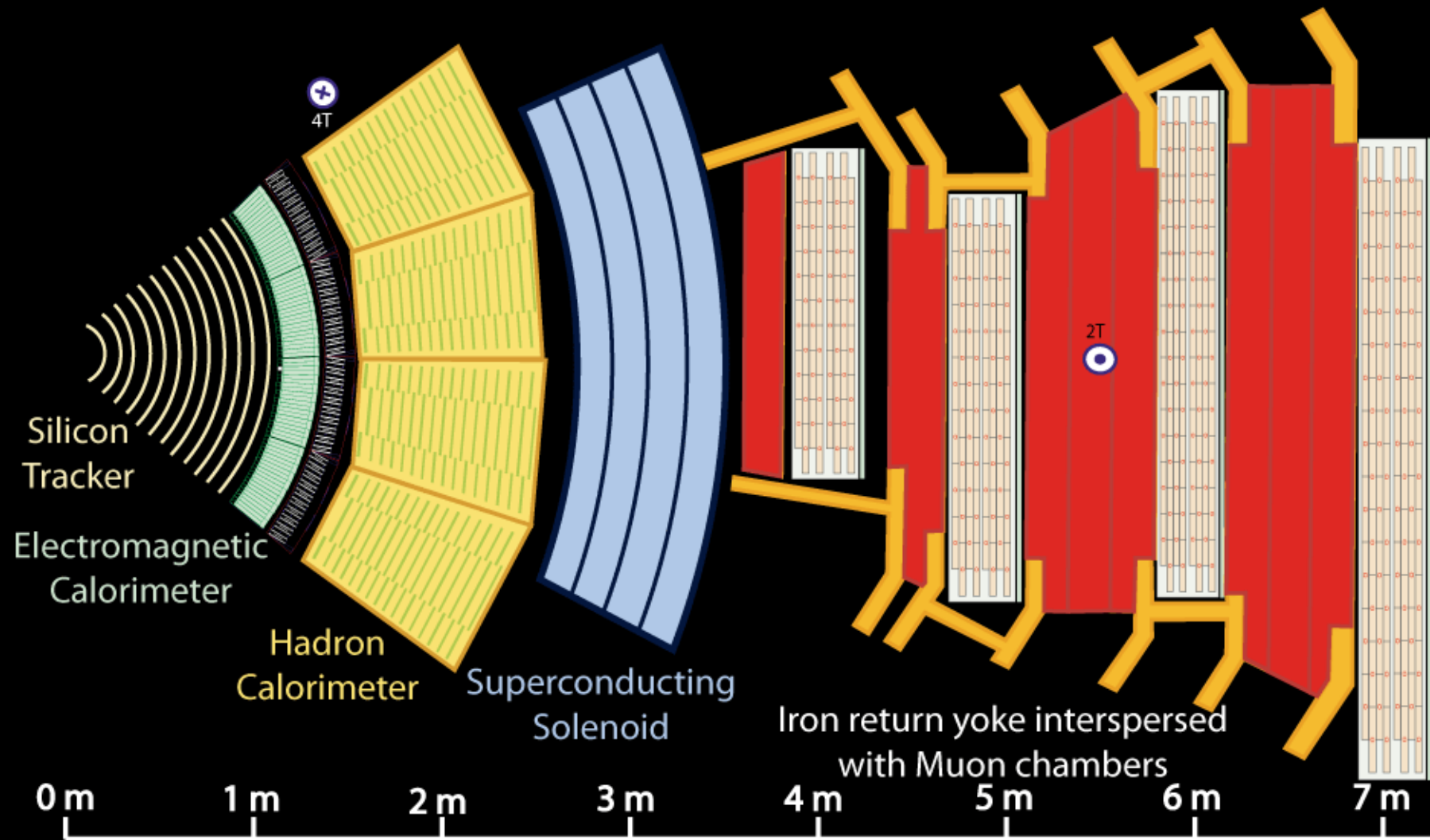
CERN's accelerator complex

Courtesy: Django Manglunki



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Key:











