

# The ALICE Experiment

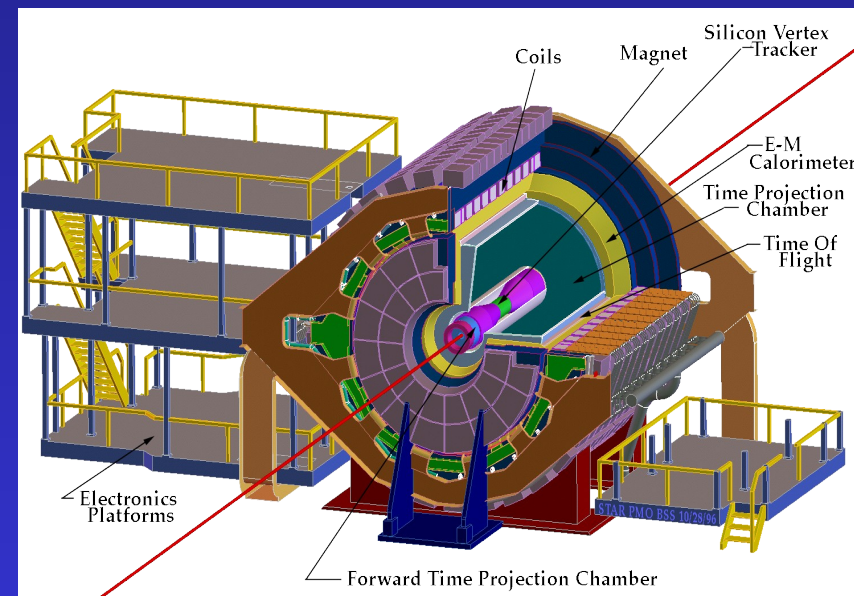
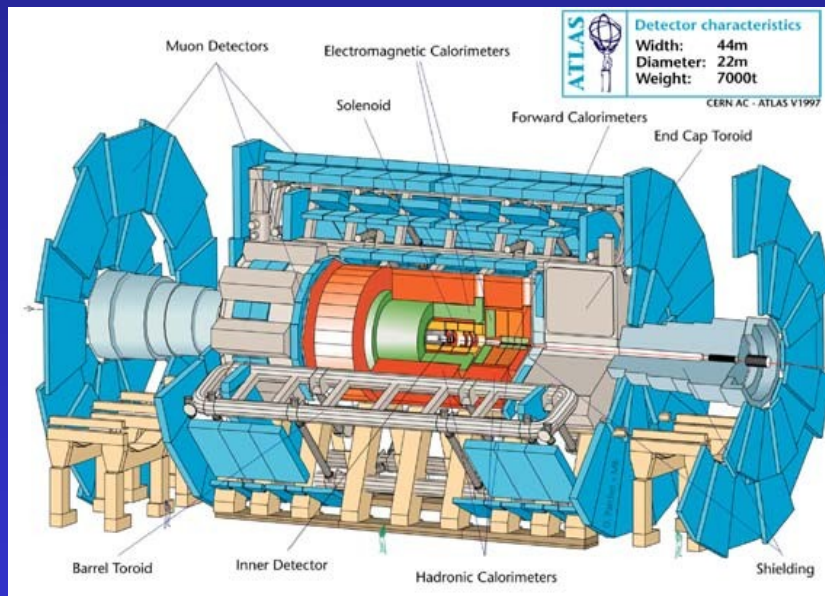
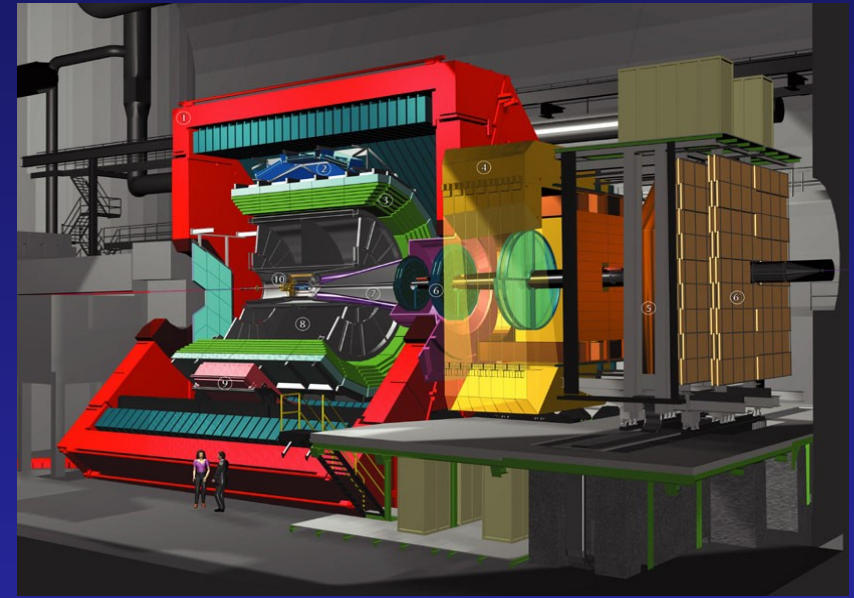
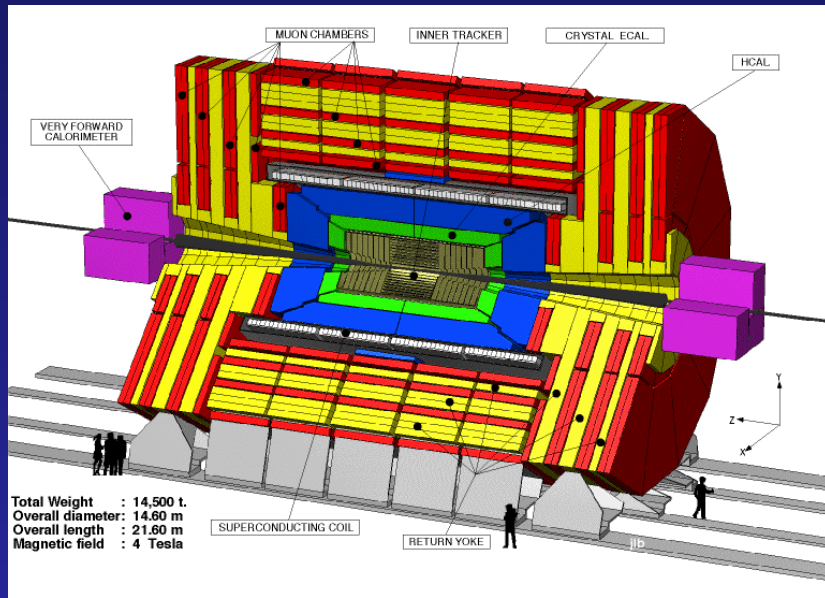
**ALICE = A Large Ion Collider Experiment**

Joakim Nystrand

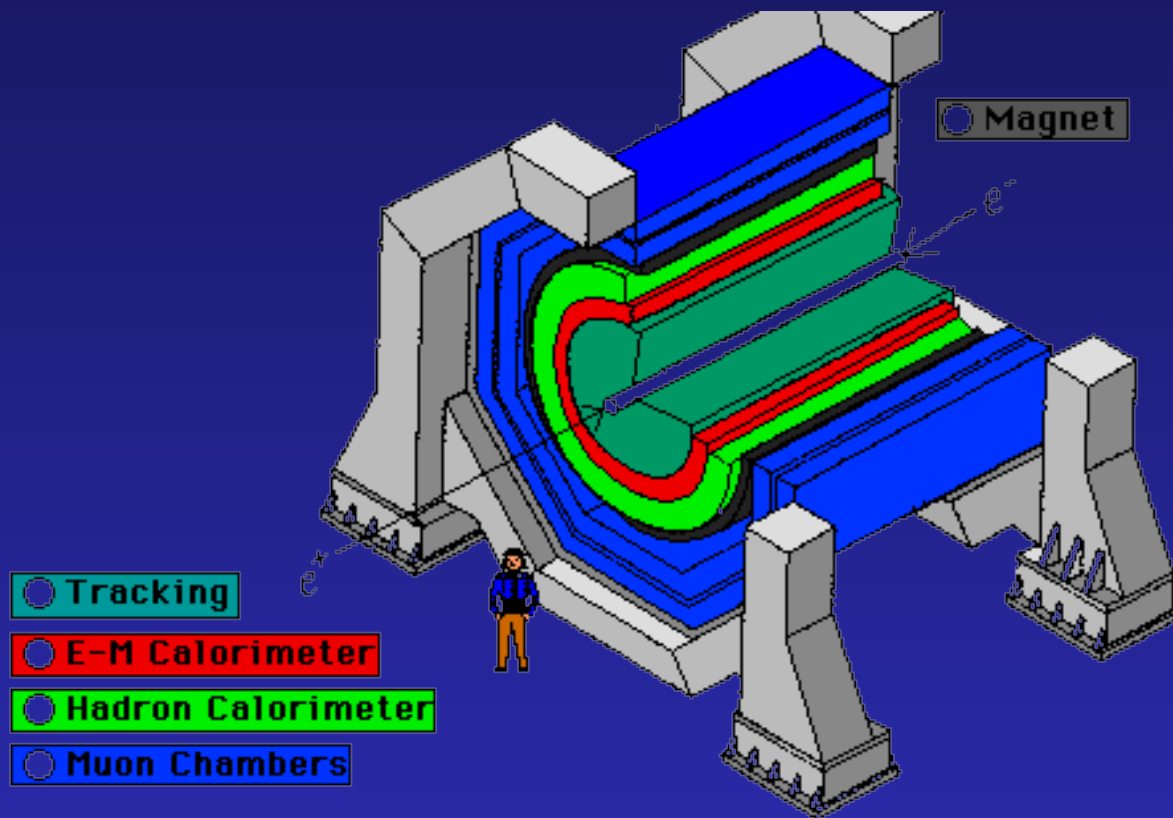
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# Some High Energy Physics Detectors



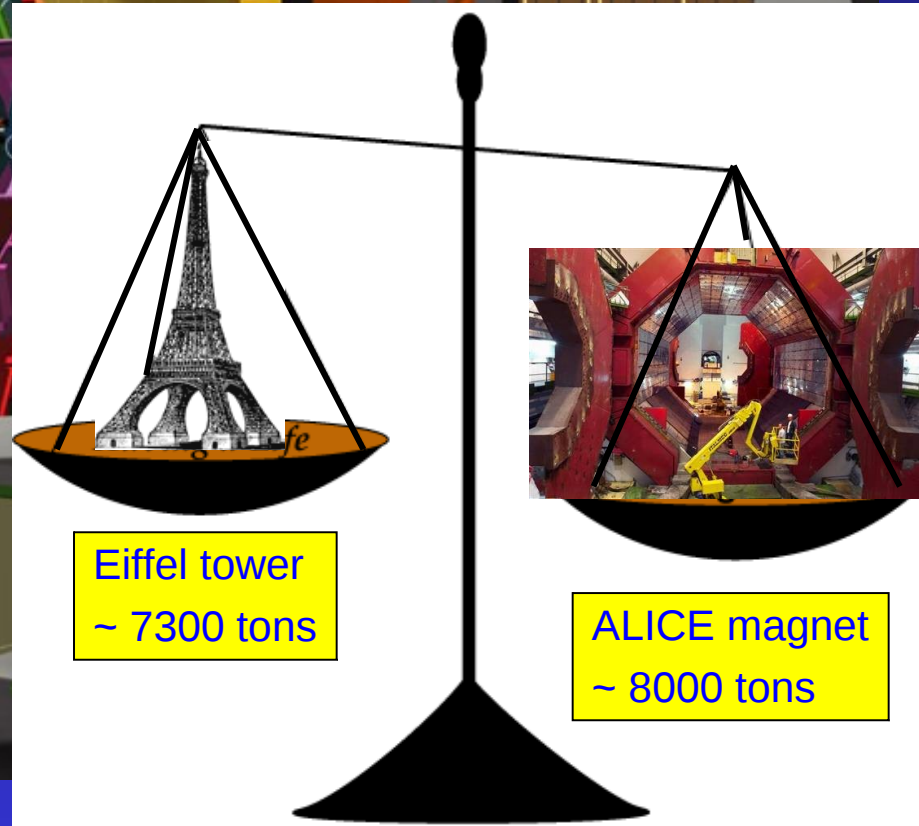
There is a common structure or ordering of the subdetectors



- Most detectors in the central barrel of ALICE are there to track and identify charged particles.
- There are also two ElectroMagnetic Calorimeter covering about  $2/3$  in  $\phi$ .
- Muons are identified in a separate muon arm.







Eiffel tower  
~ 7300 tons

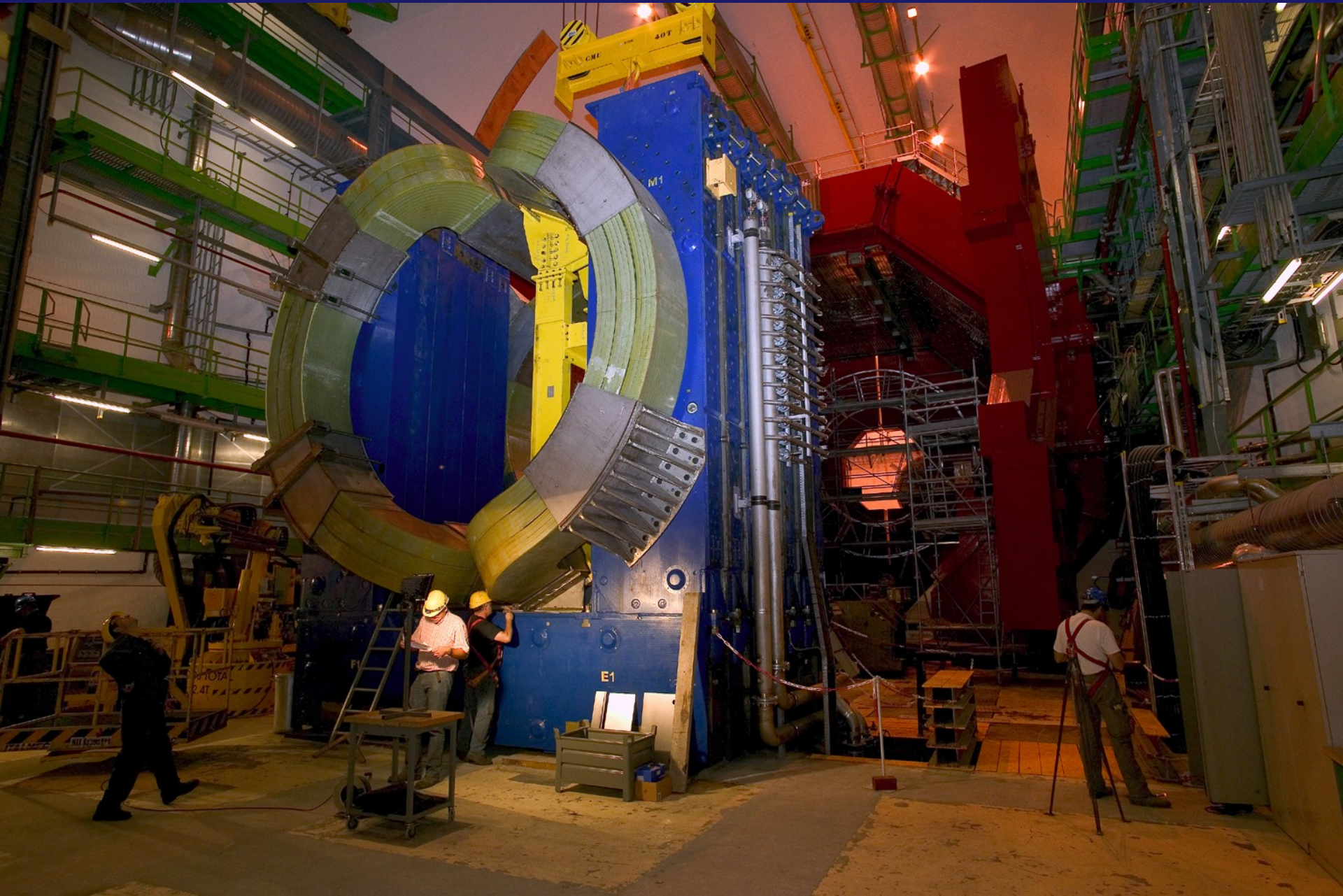
ALICE magnet  
~ 8000 tons

In the beginning...



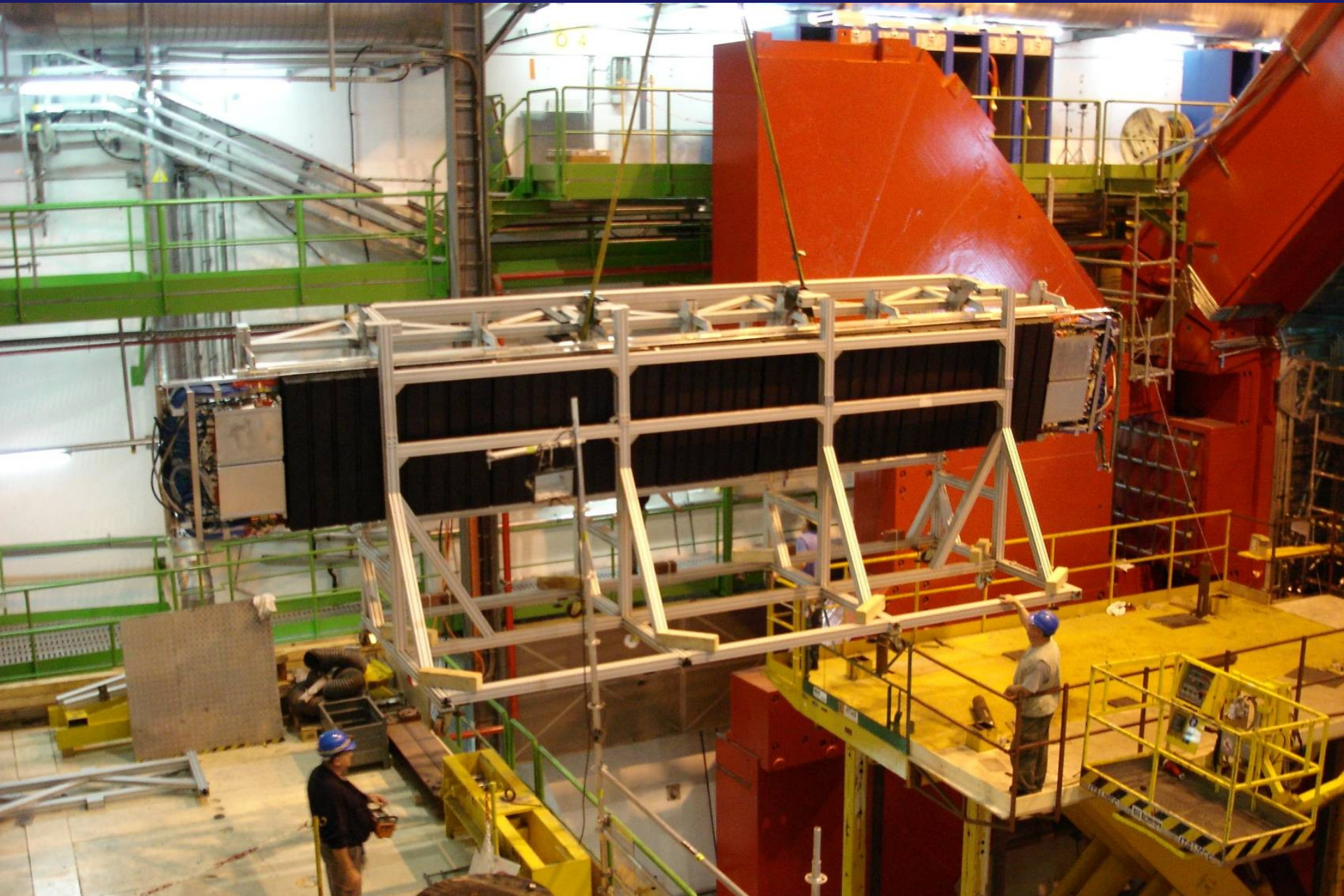


January 2005 (Muon magnet)



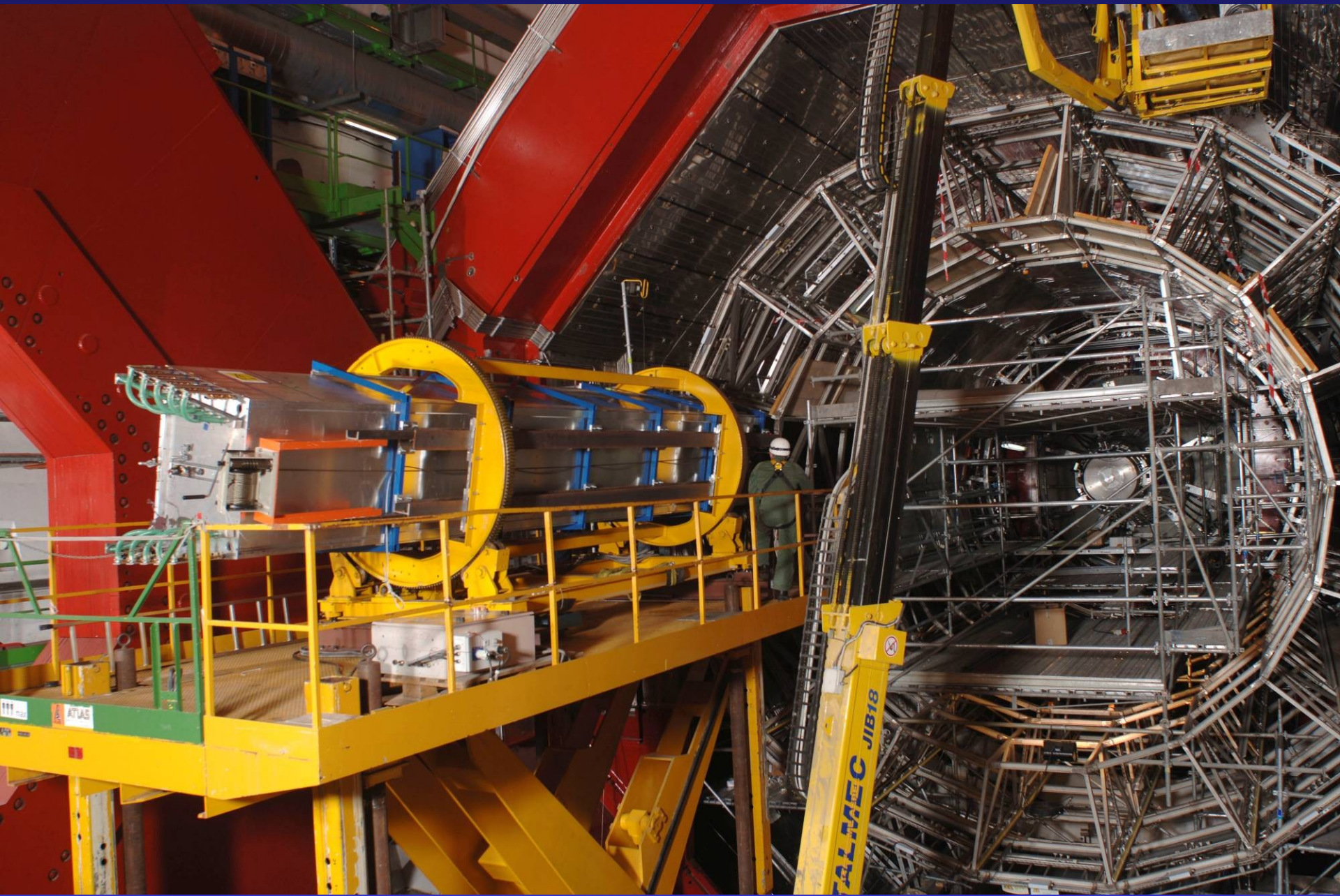


October 2006 (TOF Module)



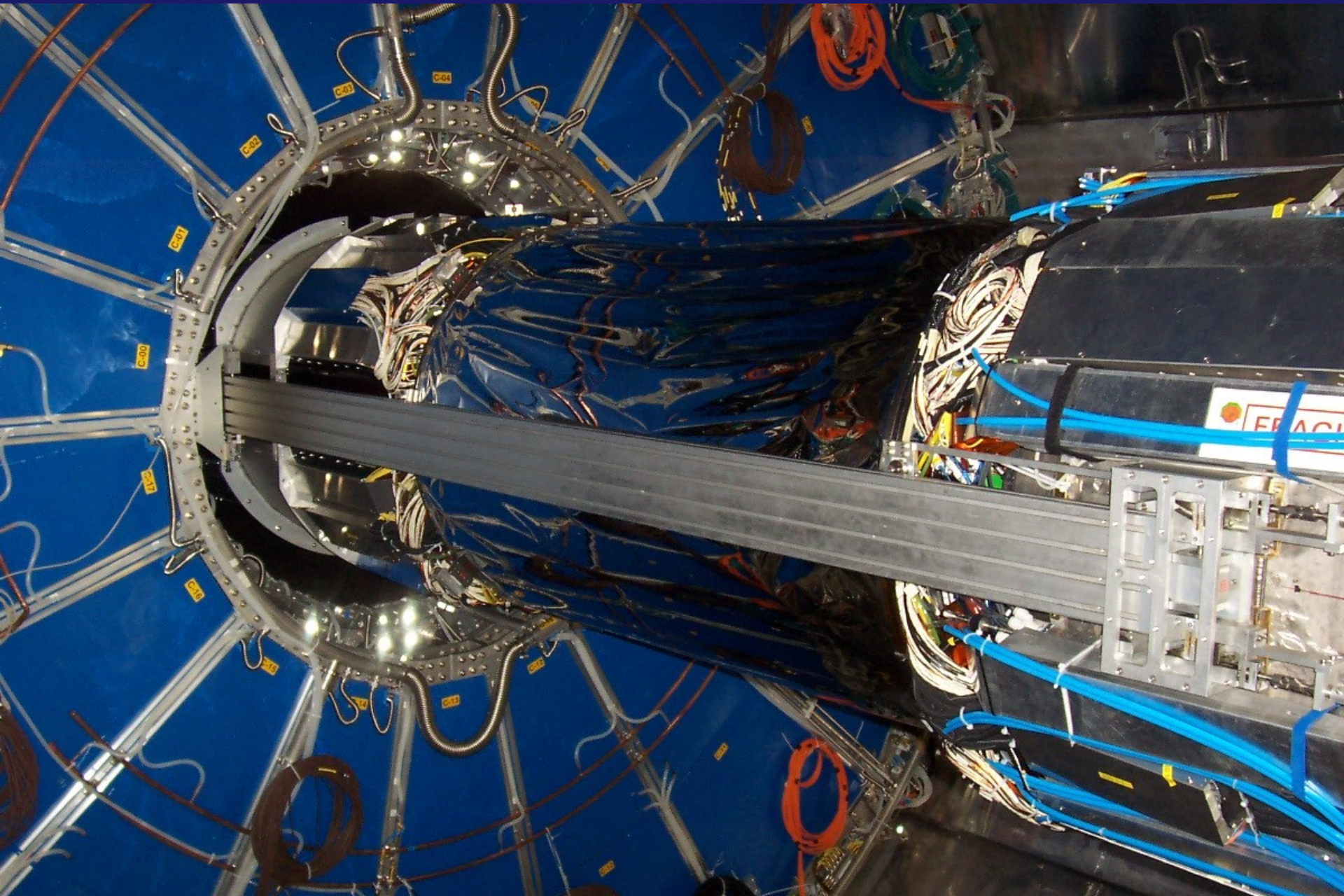


October 2006 (TRD Module)





September 2007 (ITS/TPC)

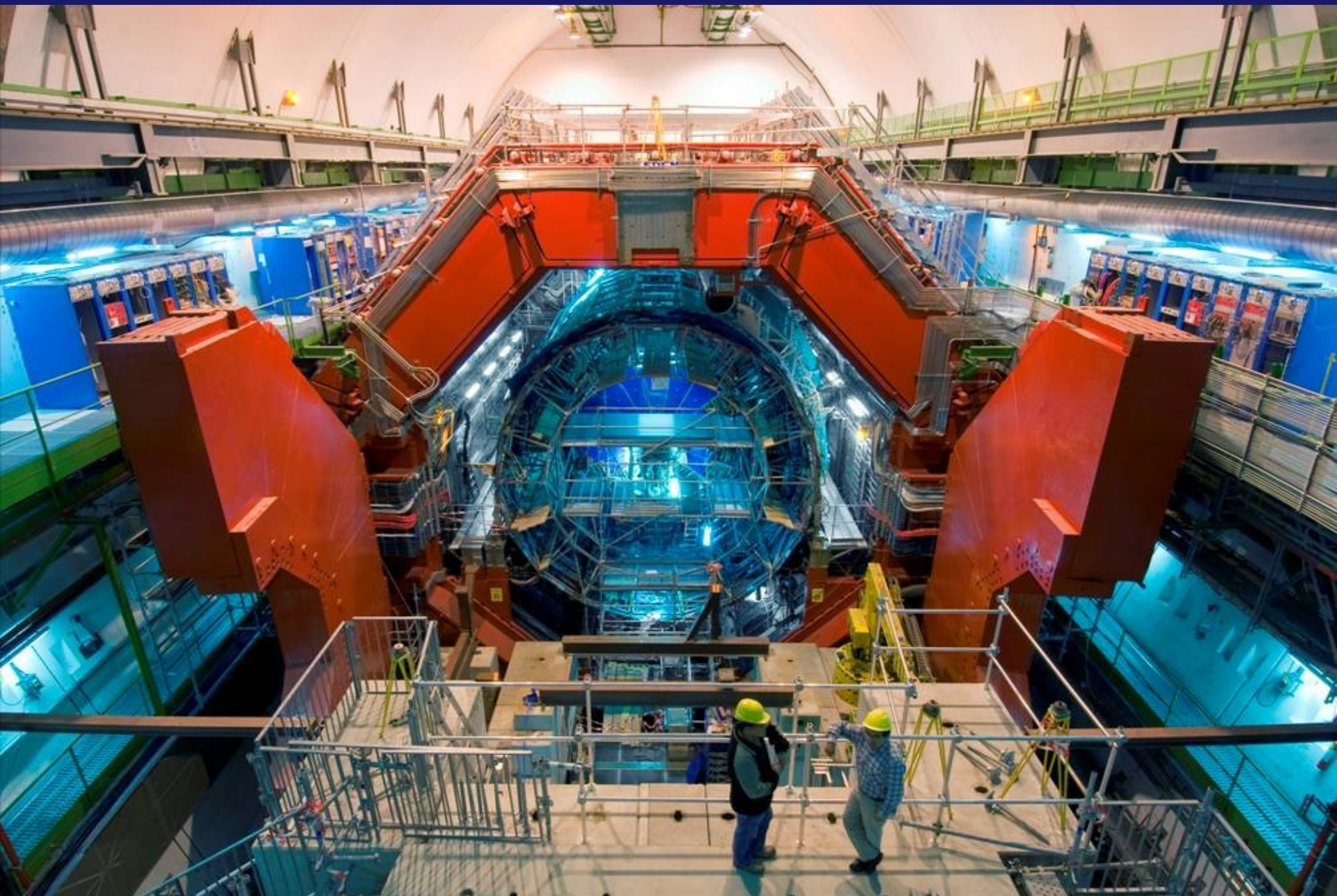




April 2008 (PHOS Module)



and when it was ready...





time to close the doors!





and take a picture! (July 2008)





and take a picture! (July 2008)



I'm here



and wait for first collisions (23 November 2009)





and wait for first collisions (23 November 2009)



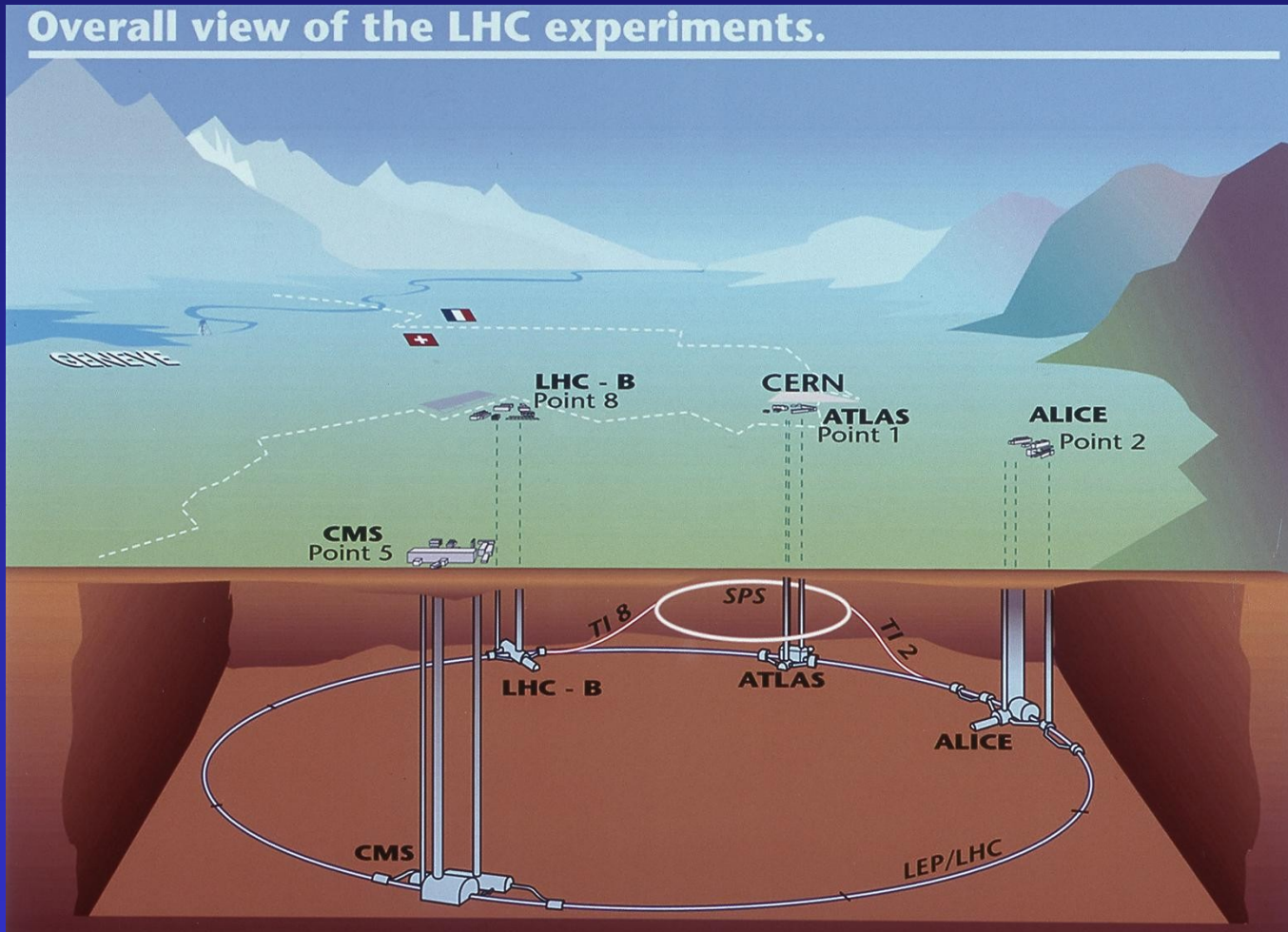
And then just collect more and more data ...





We are at ground level.

The detector is 100 m below ground.



What we will see:

- Exhibition, with examples of detector components.
- ALICE Control Room.