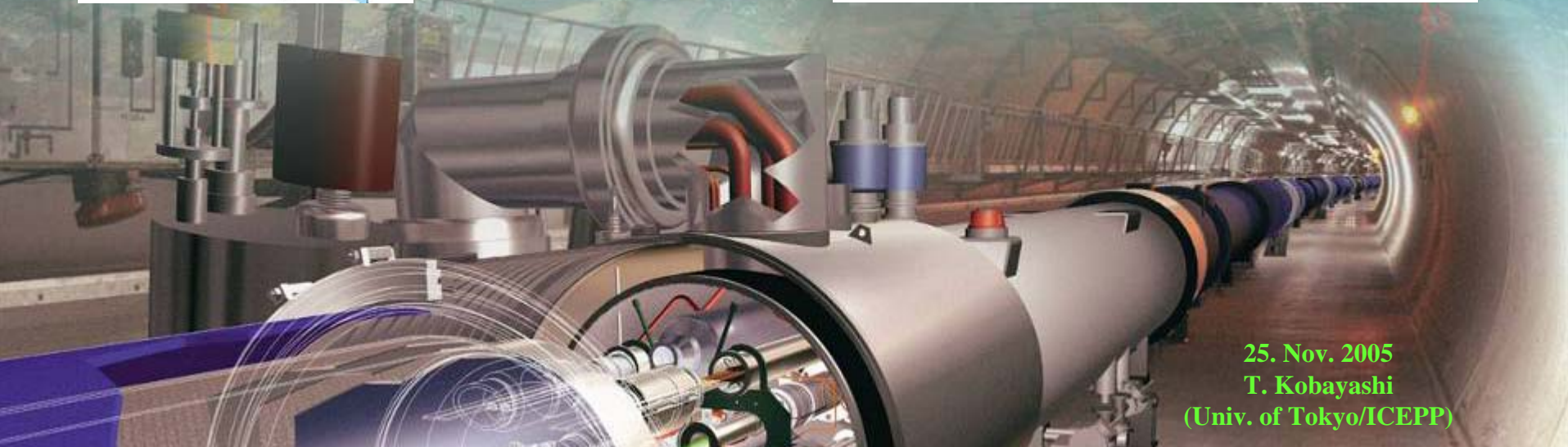
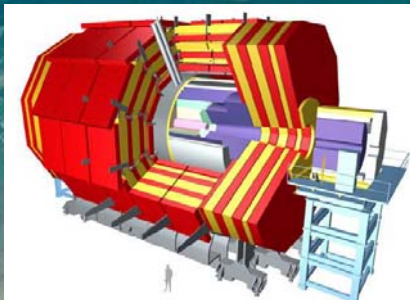
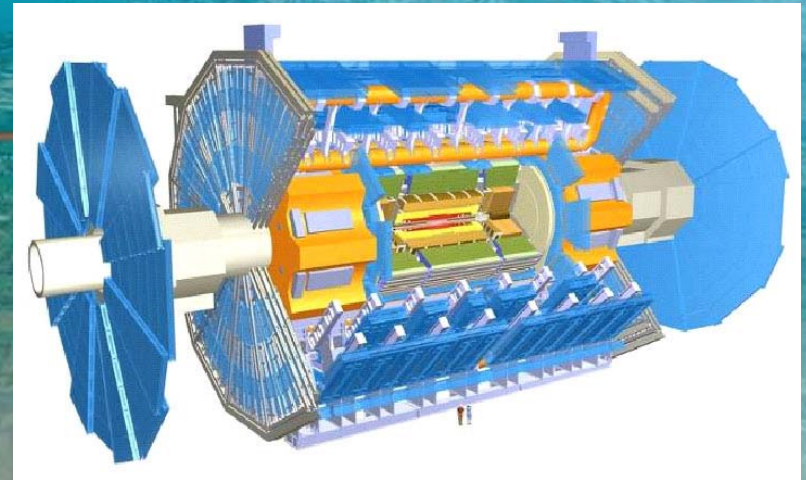


1st International Conference

"Discoveries of Higgs and Supersymmetry to Pioneer
Particle Physics in the 21st Century"

Concluding Remarks
(LHC Status)

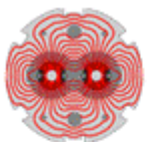


25. Nov. 2005
T. Kobayashi
(Univ. of Tokyo/ICEPP)

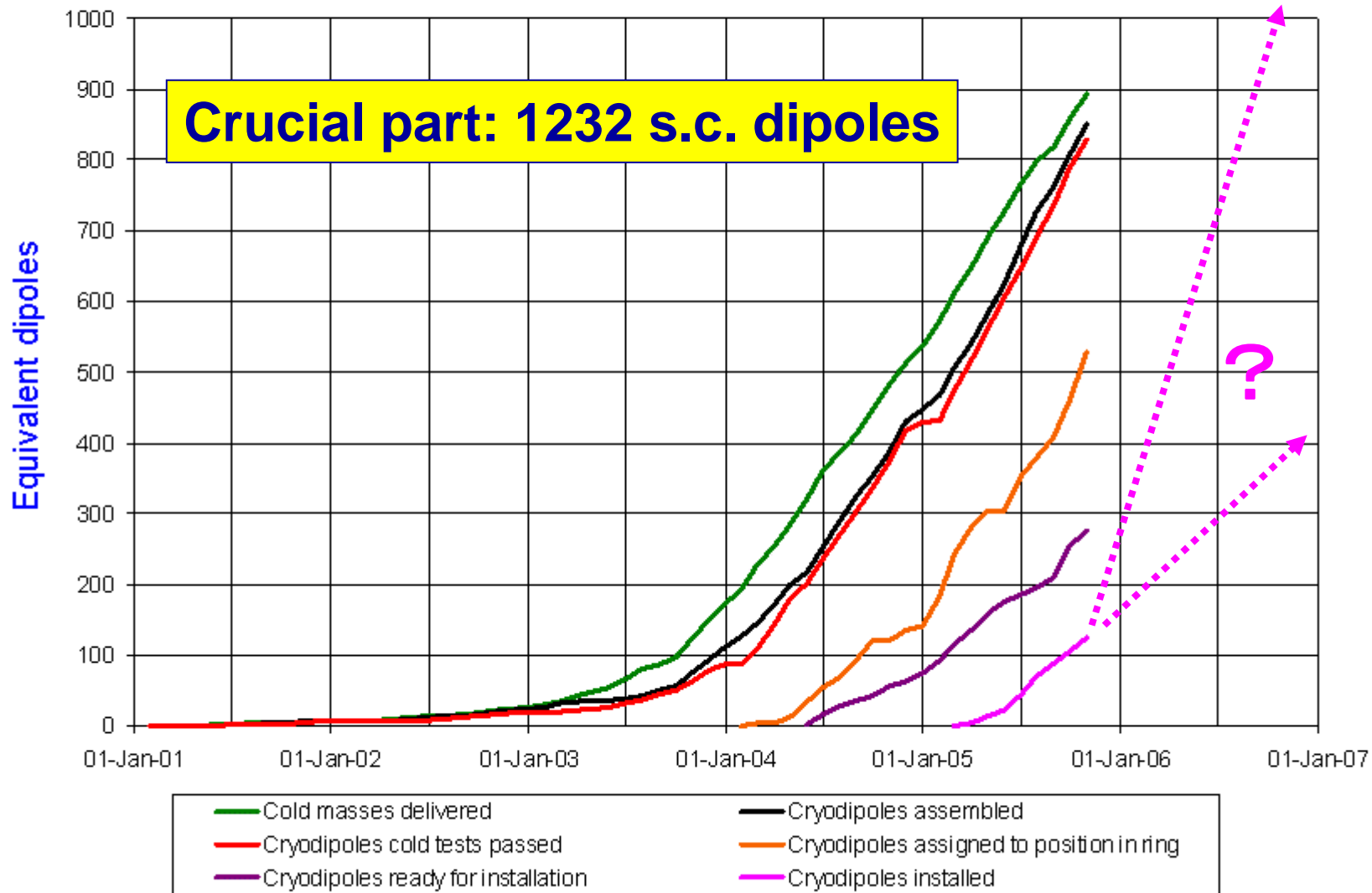
**This is not a CG picture.
LHC is really coming soon!**

(24.Oct.2005)





Cryodipole overview



Conclusions (Lyn Evans at the recent Council Week)

Main objectives:

- terminate installation in February 2007
- first collisions in summer 2007

← till Sun, Oct. 28, 2007(?)

The industrial production of standard components is compatible with this objective.

The ramping up of QRL activities and magnet installation is critical to maintain this schedule.

Additional actions have been implemented to ensure proper QRL production and installation rates.

The installation and interconnection of cryomagnets have started in the tunnel.

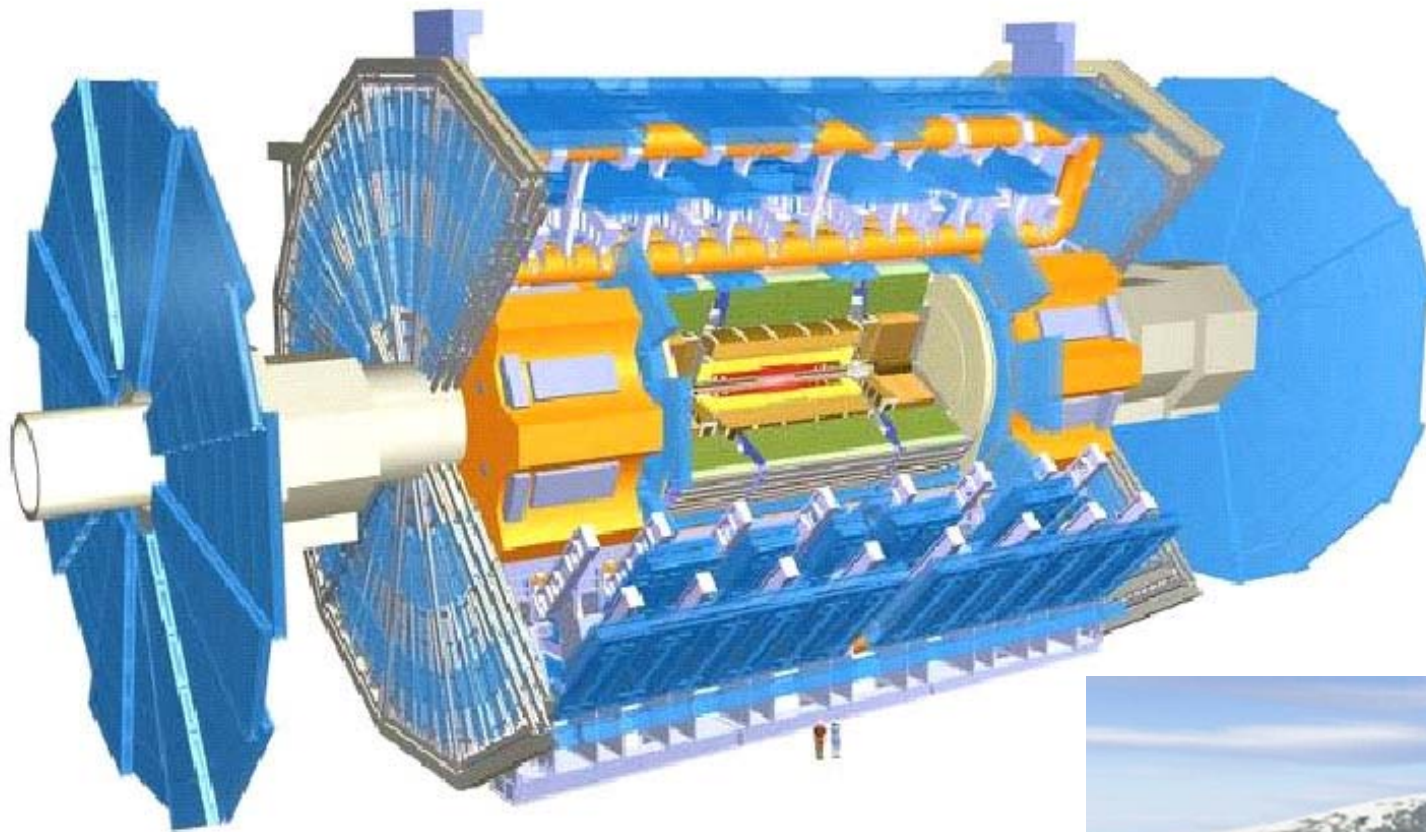
The commissioning of technical systems will take place in two adjacent sectors in parallel.

Main next actions:

- partial test of sector 7-8 in autumn 2005
- commissioning test of the two first sectors (7-8 and 8-1) in summer 2006
- find external collaborators to help with commissioning.

→ We have all reasons to be better ready as well!
(ATLAS)

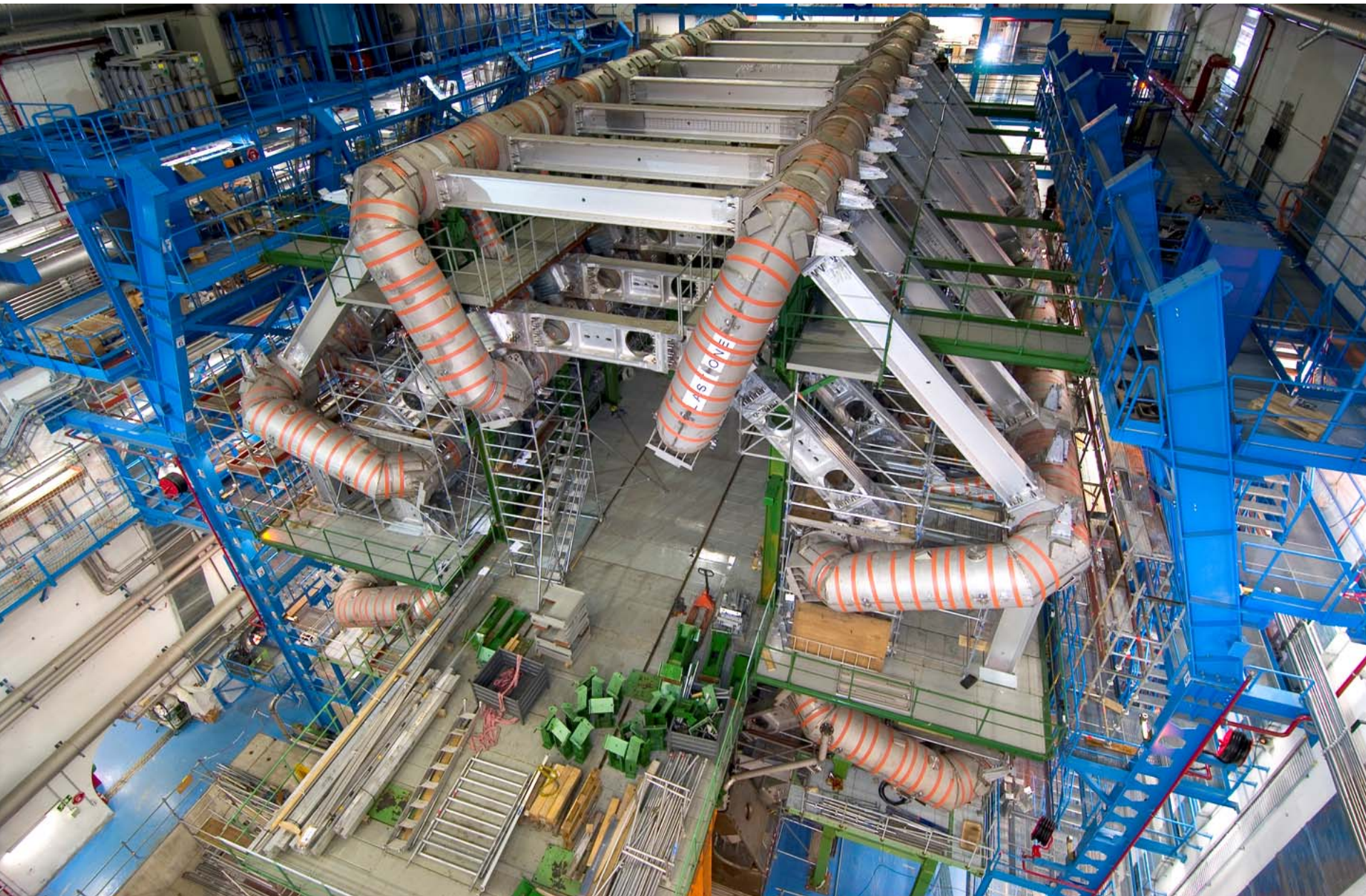
ATLAS Detector Construction & Installation

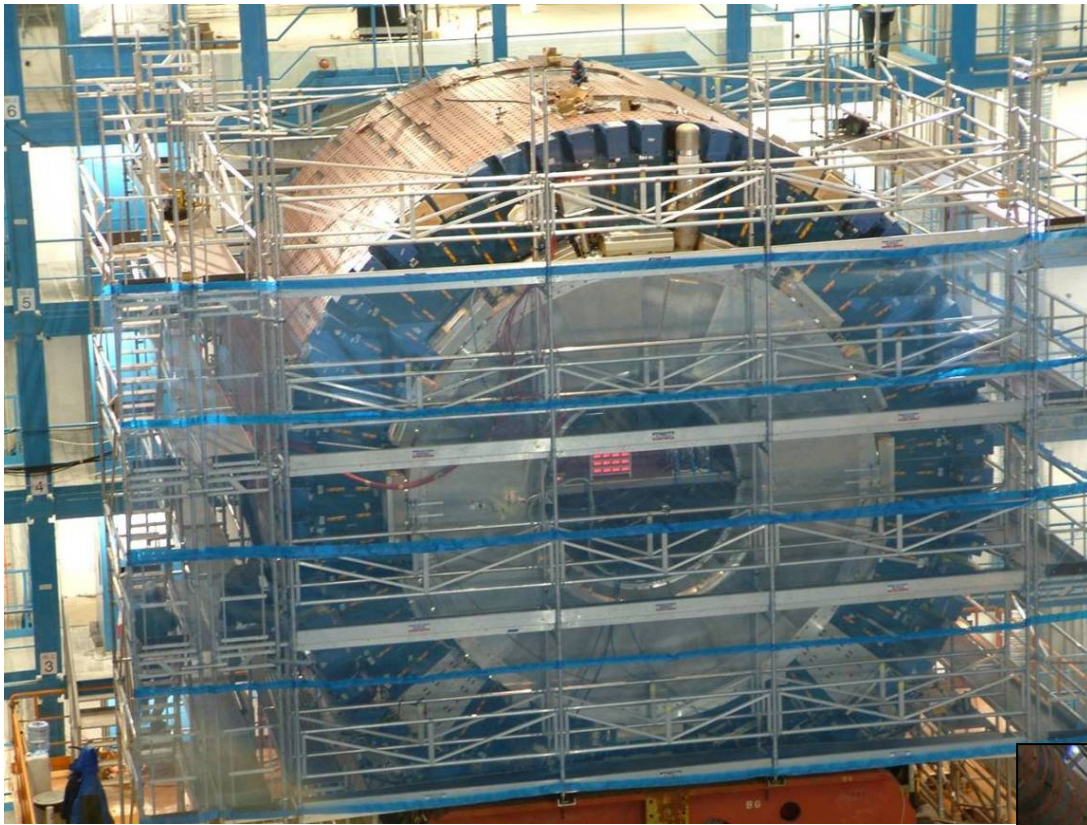


Diameter	25 m
Barrel toroid length	26 m
End-cap end-wall chamber span	46 m
Overall weight	7000 Tons
Detector sensors	110M channels



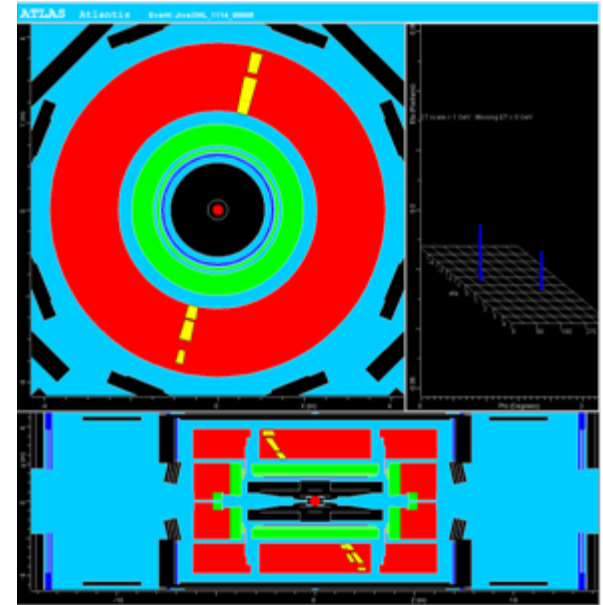
The last(8-th) Barrel Toroid coil was installed in August 2005.



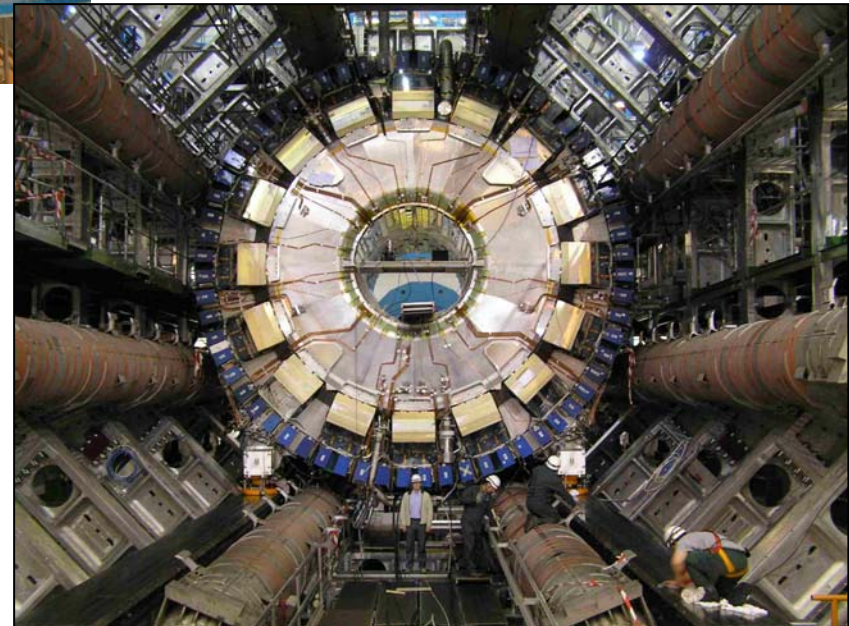


The barrel LAr and Tile calorimeters are ready since some time in the cavern in the garage position.

A cosmic muon registered in the Tile calorimeter



And now, they are in the final position.



Activities of ATLAS-Japan Group

15 Institutions (KEK, Tsukuba, UT/ICEPP, TMU, Shinshu, Ritsumeikan, Kyoto, KUE, Osaka, Kobe, NUE, Okayama, Hiroshima, HIT, NIAS)

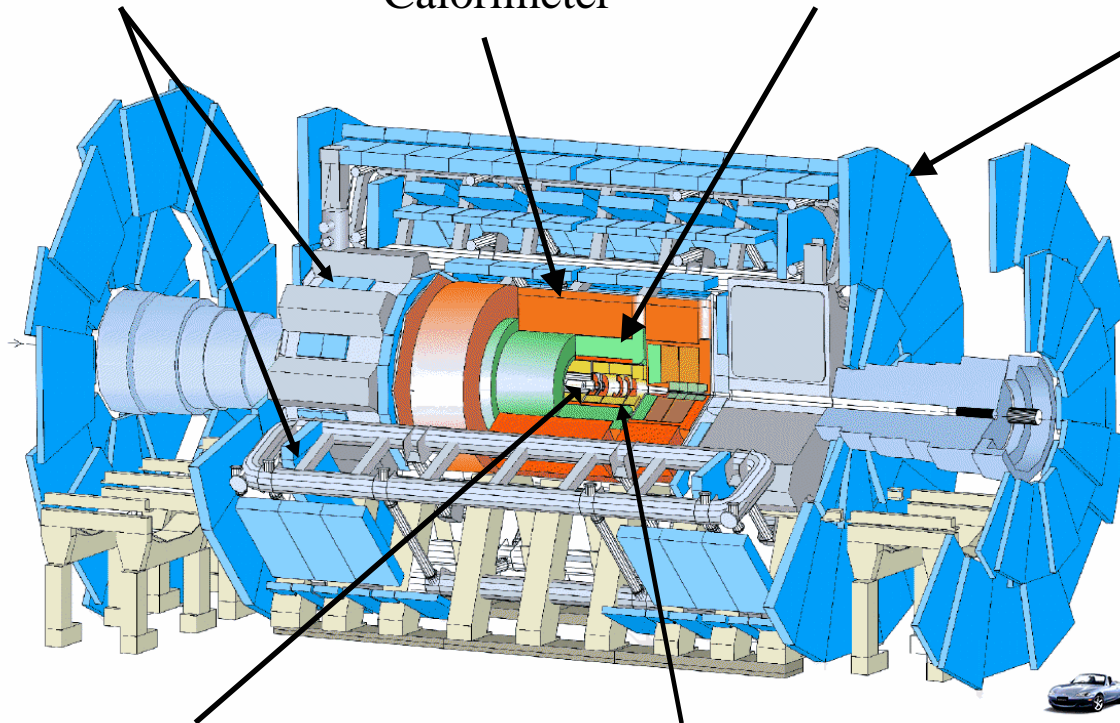
~50 Staffs (+ Students)

Toroid Magnets
(Air-Core)

Hadron
Calorimeter

EM Calorimeter

Muon Spectrometer



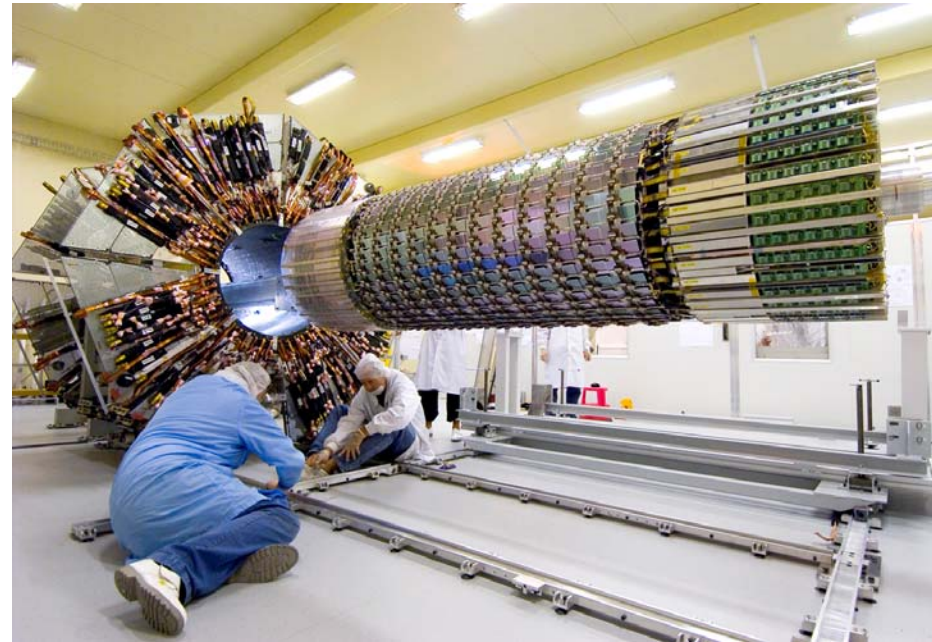
Inner Detector

Solenoid Magnet

+ DAQ
+ Software
+ Regional Center



s.c. solenoid (Sep.2001)
already integrated with barrel LAr
and brought into the pit

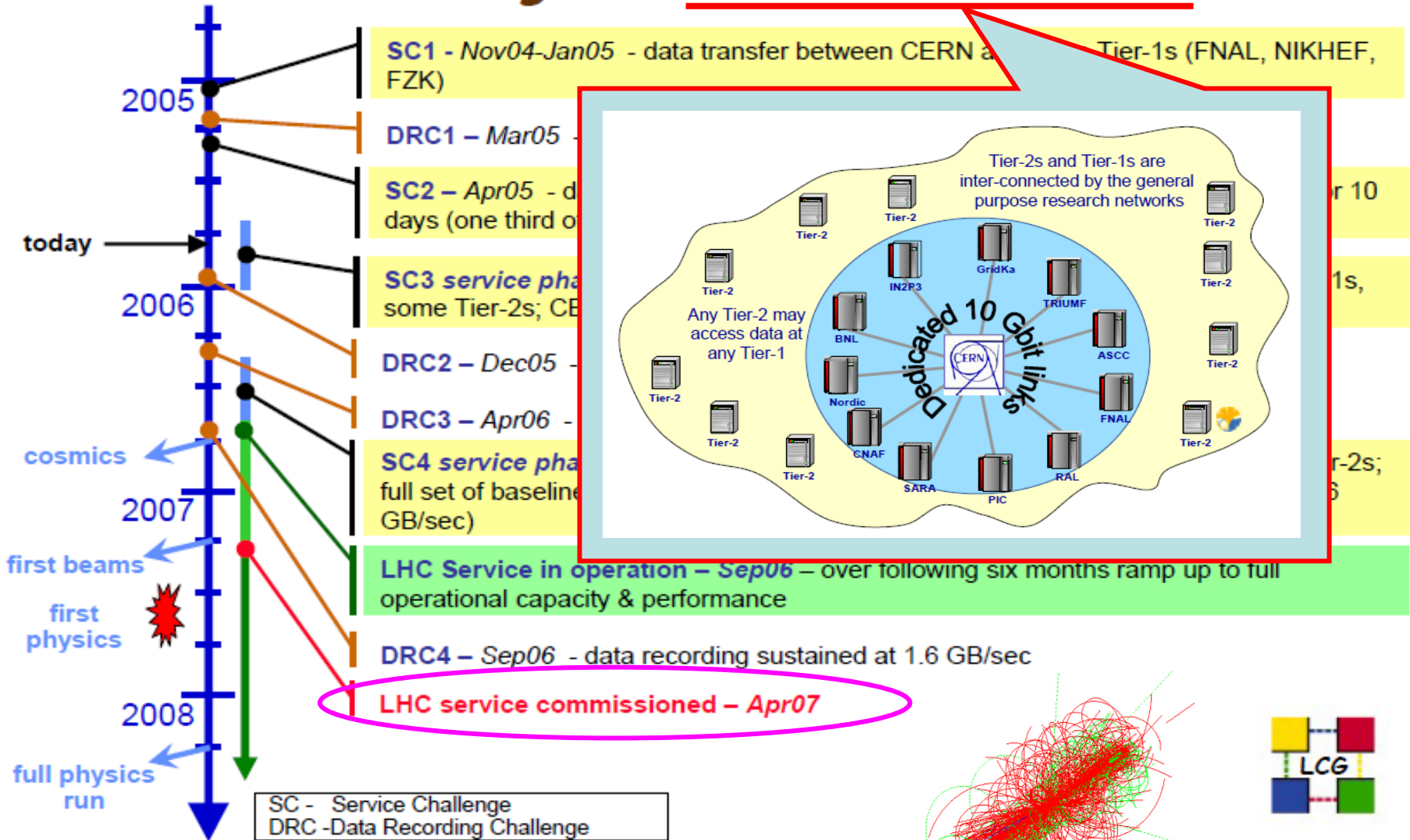


SCT barrel integration
(Sep.2005)



TGC 1/12 sector assembly
(Sep.2005)

Building the Worldwide LHC Grid

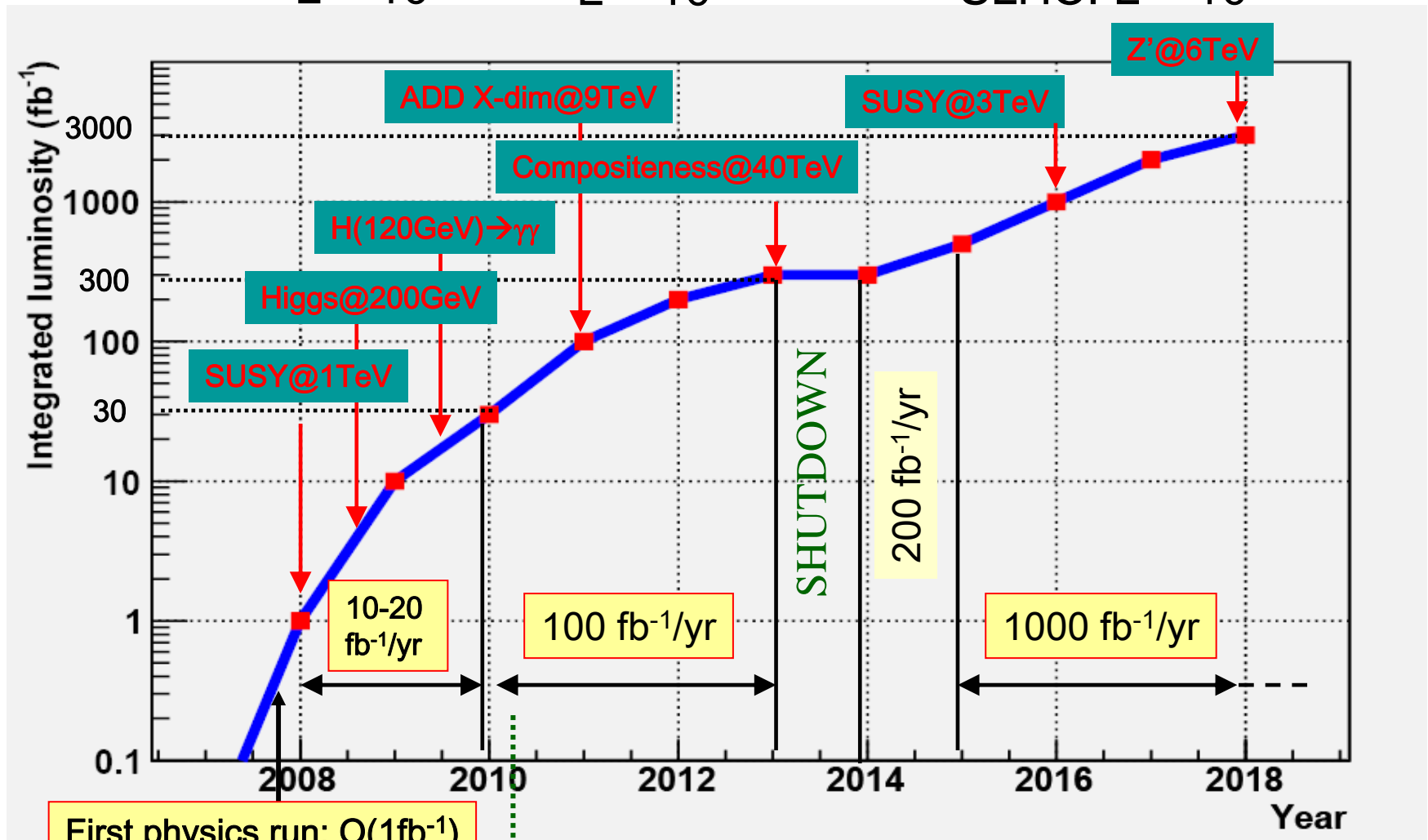


LHC Luminosity Profile

$L = 10^{33}$

$L = 10^{34}$

SLHC: $L = 10^{35}$

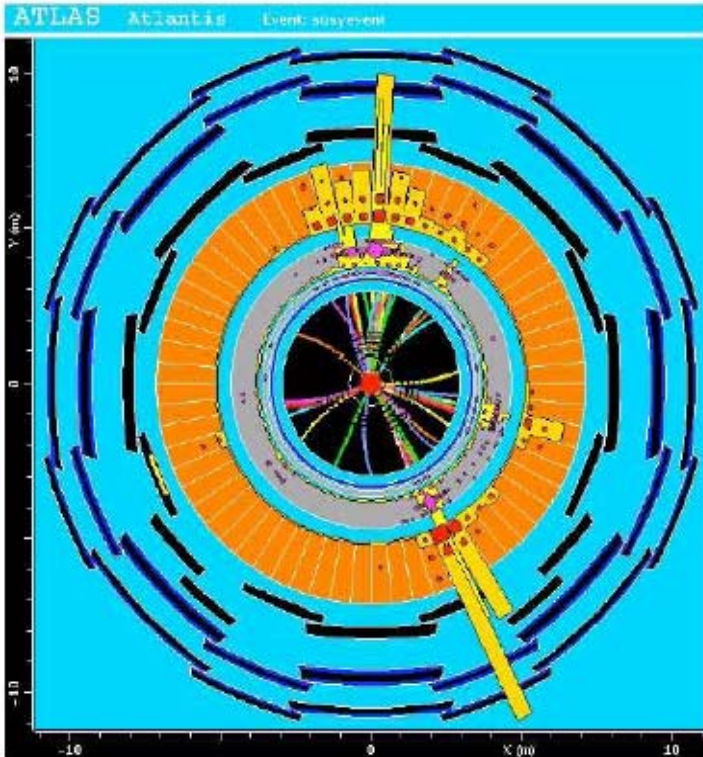
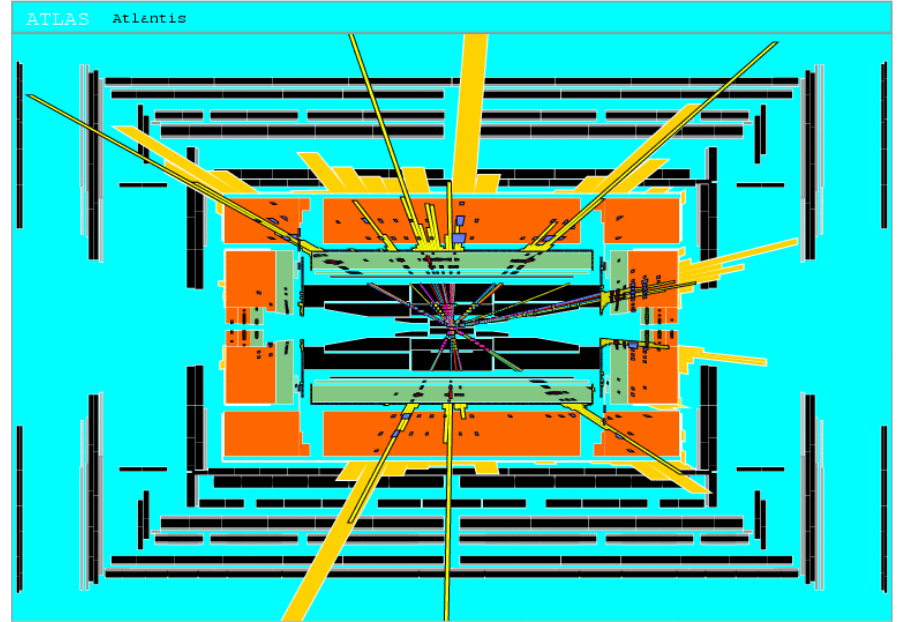
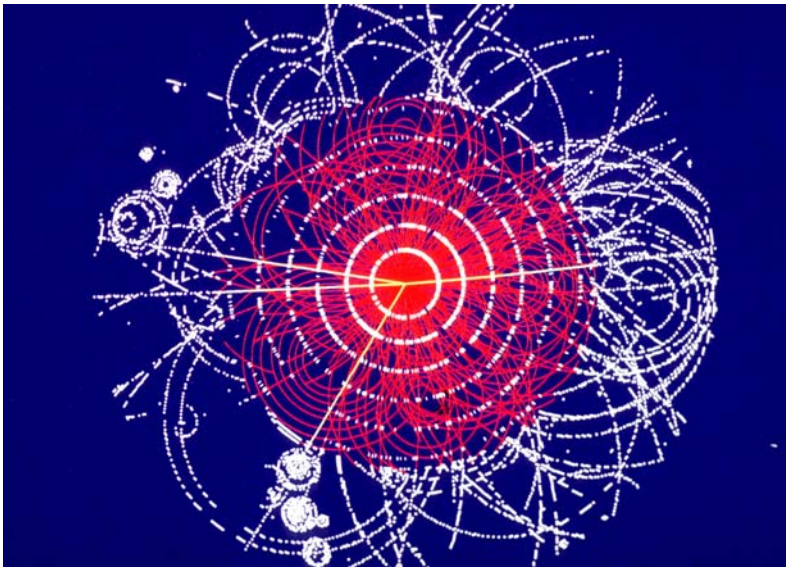


First physics run: $O(1\text{fb}^{-1})$

Grants-in-Aid for Scientific Research
(Discoveries of Higgs and SUSY...)

?

0.5 ~ 10 fb⁻¹ by the end of 2008



Let's hope for the best
and
be prepared for any new signals!