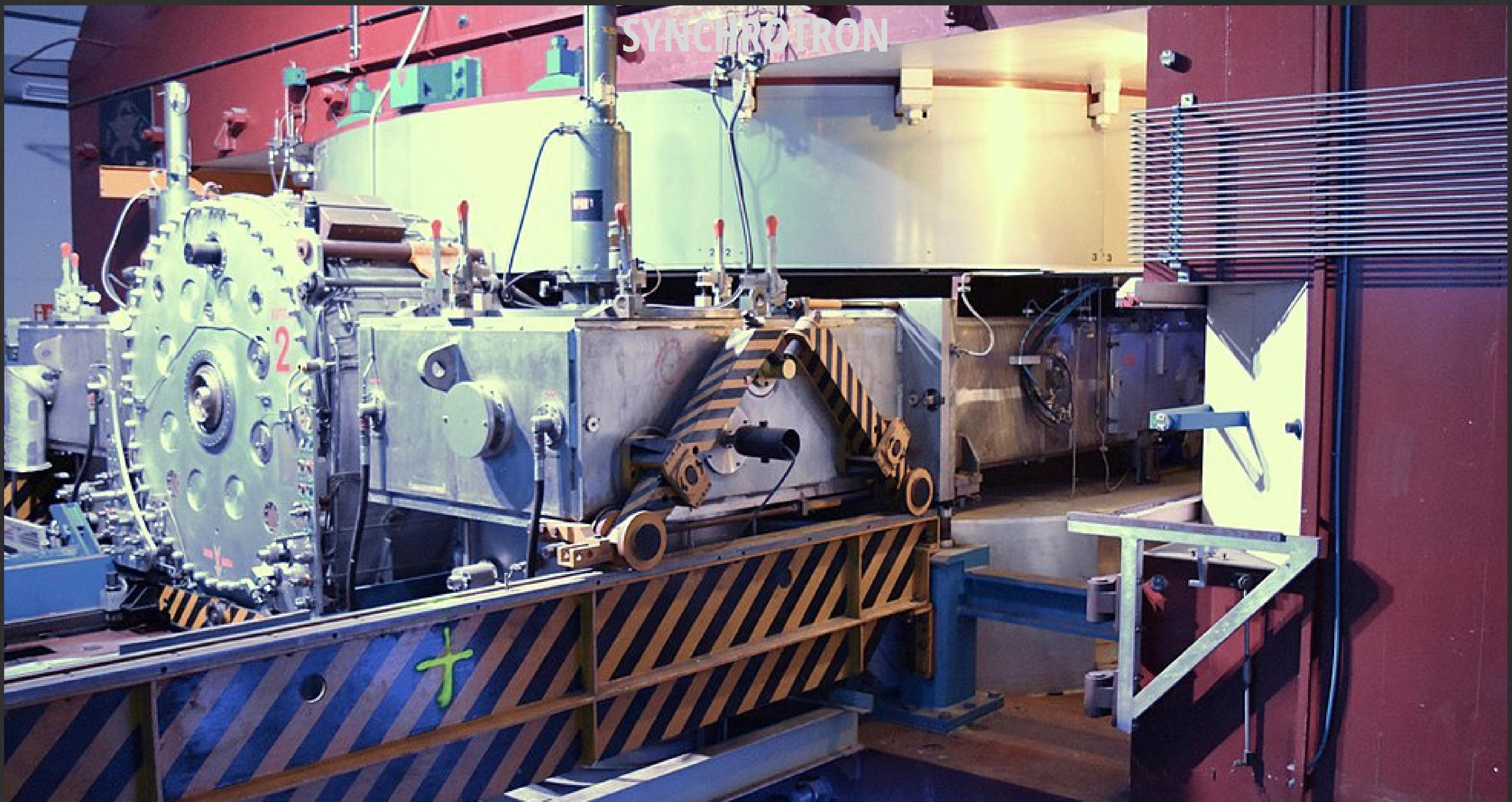




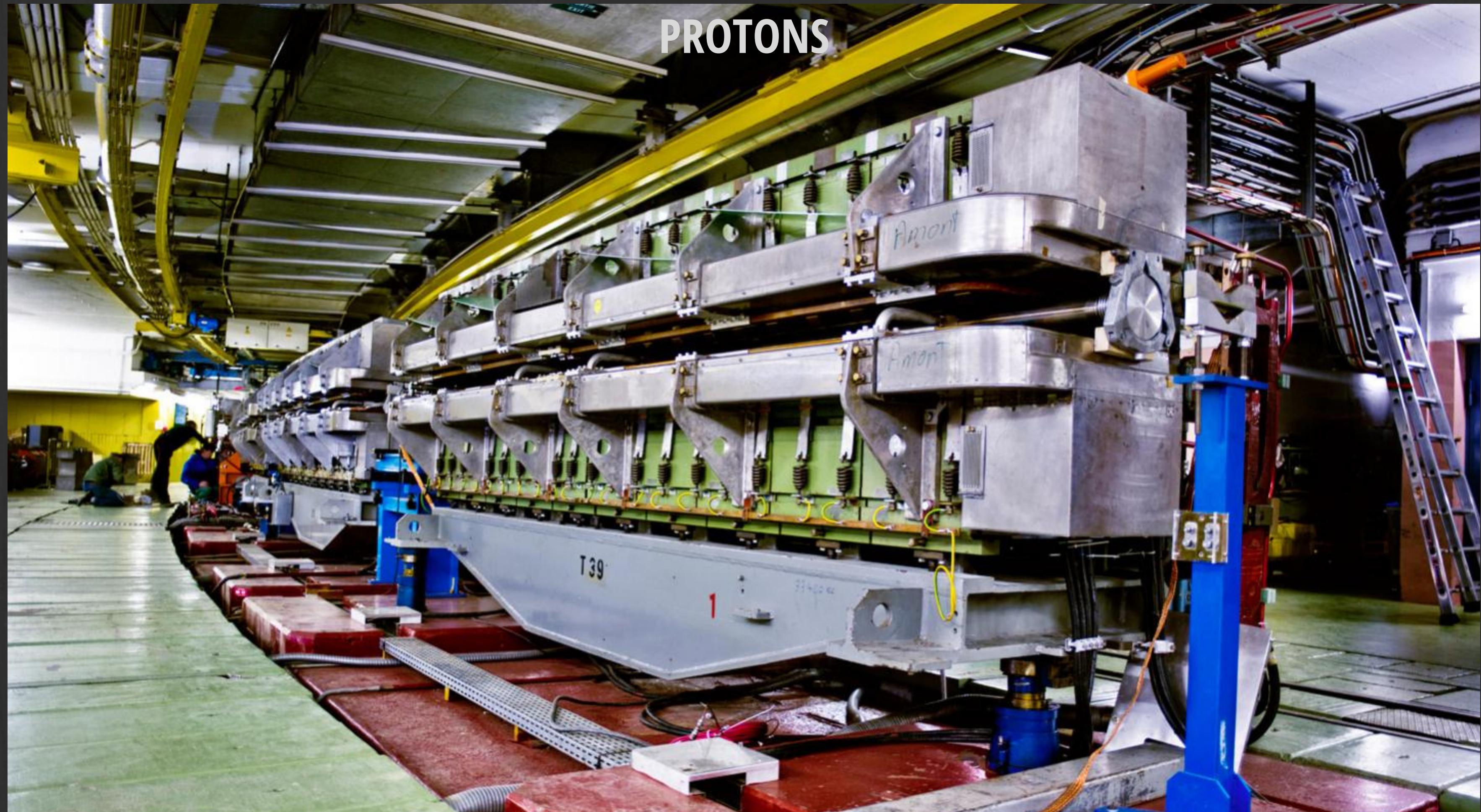
LE CERN

CYCLO

SYNCHROTRON



SYNCHROTRON À PROTONS



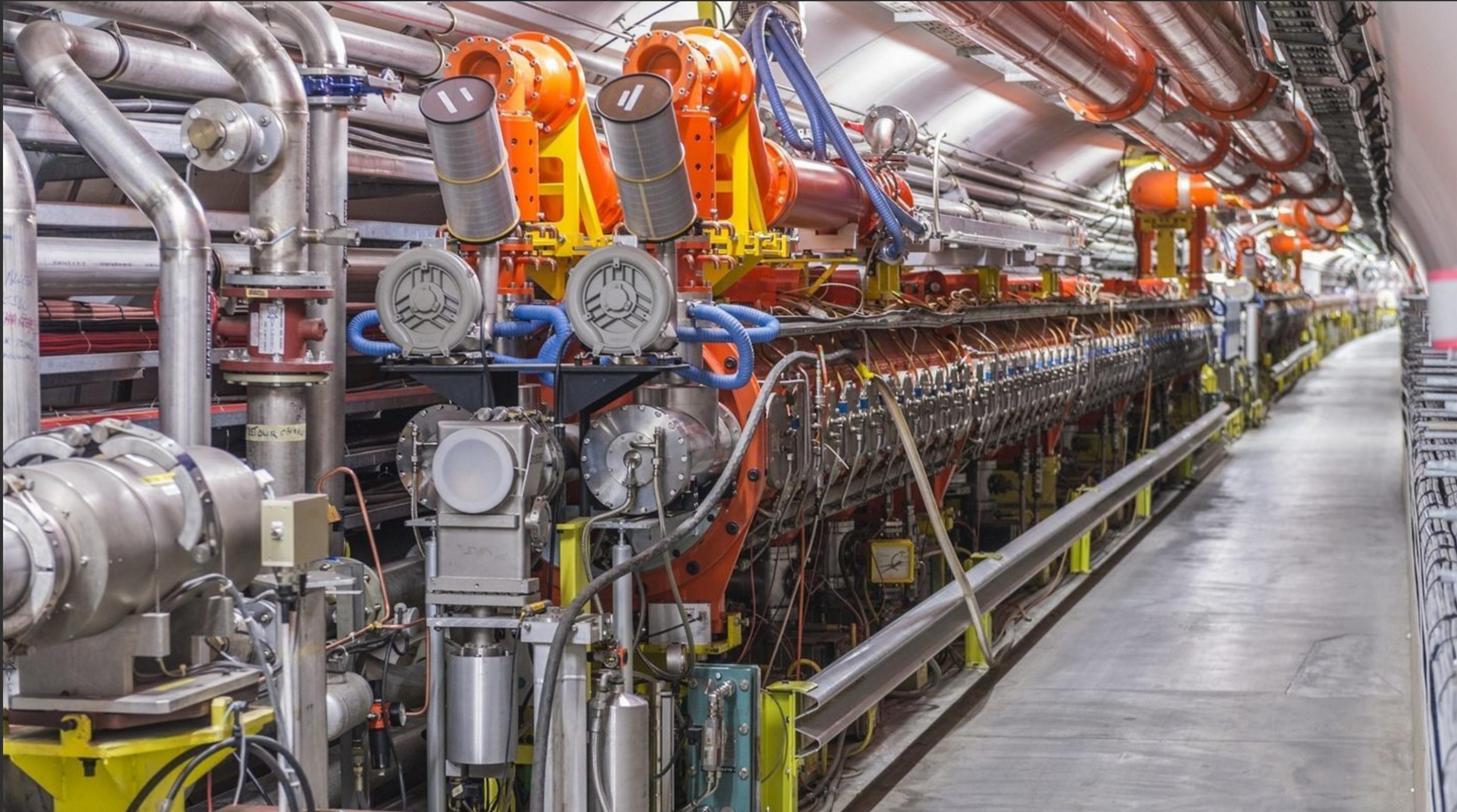
INTERSECTION STOCK RING



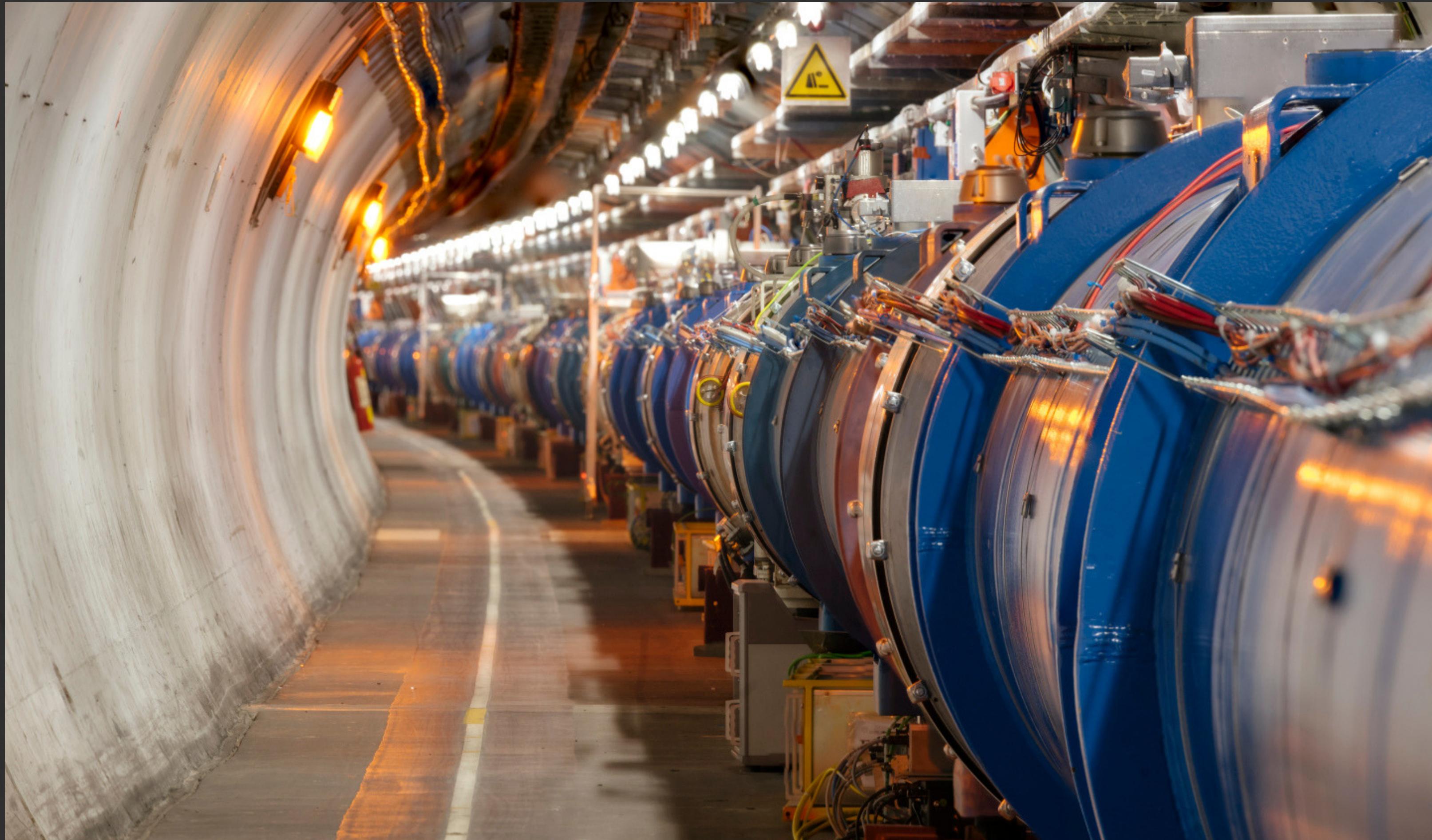
CHAMBRE À BULLES À HYDROGÈNE

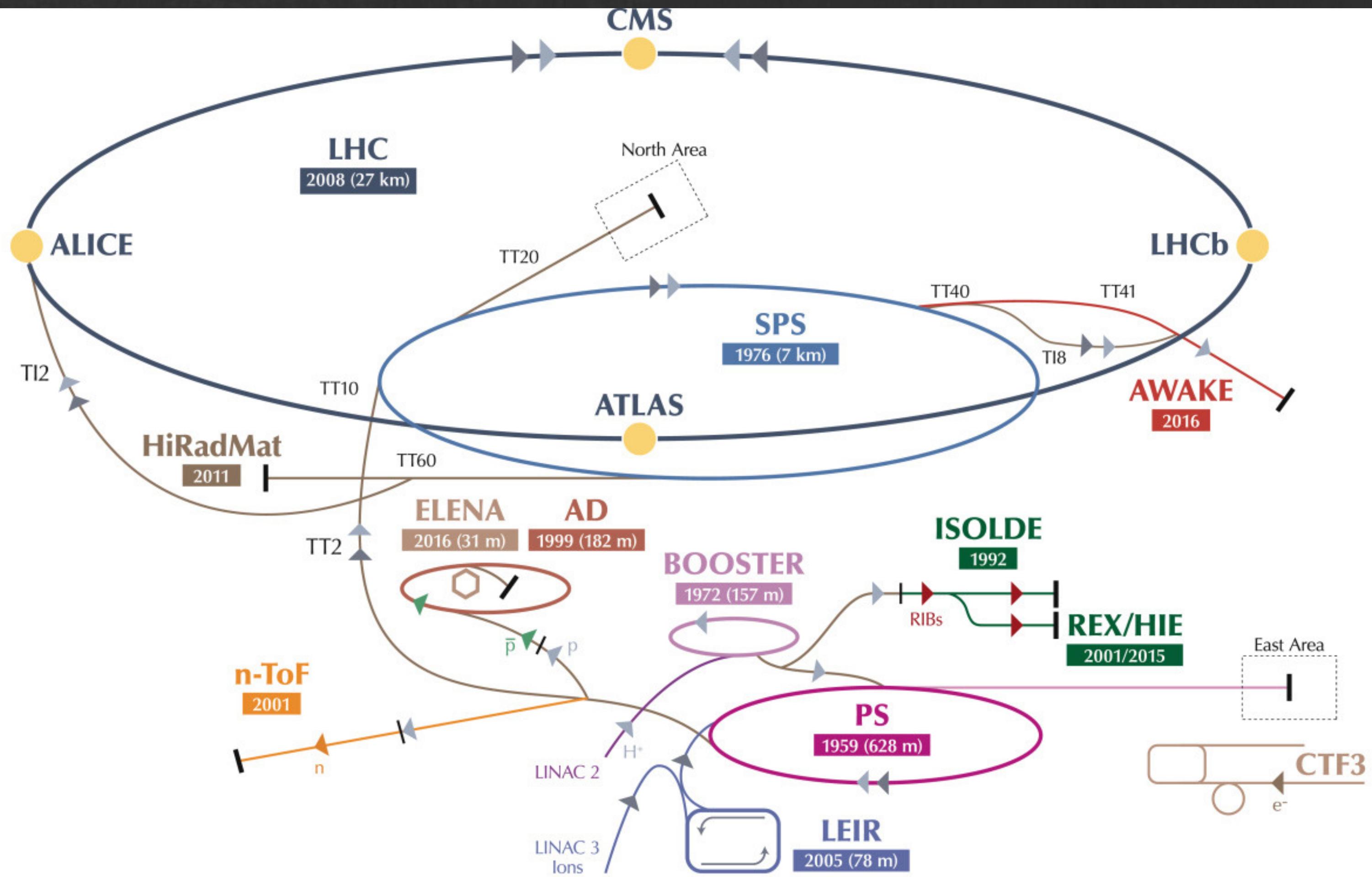


SUPER SYNCHROTRON À PROTONS



LARGE HADRON COLLIDER





ELECTRO-AIMANT SUPRACONDUCTEUR

1232 dipôles

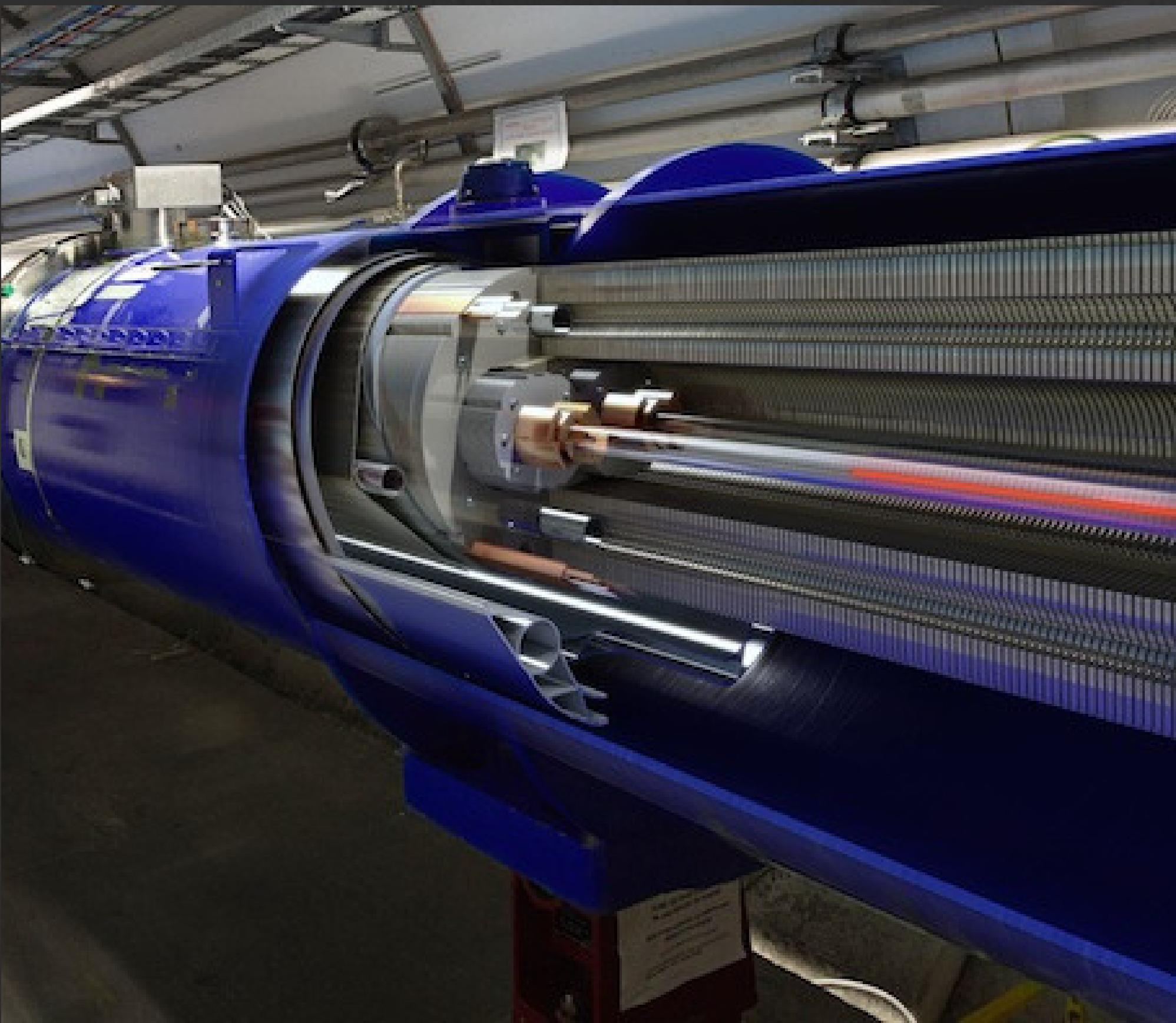
L= 15m

m= 35 tonnes

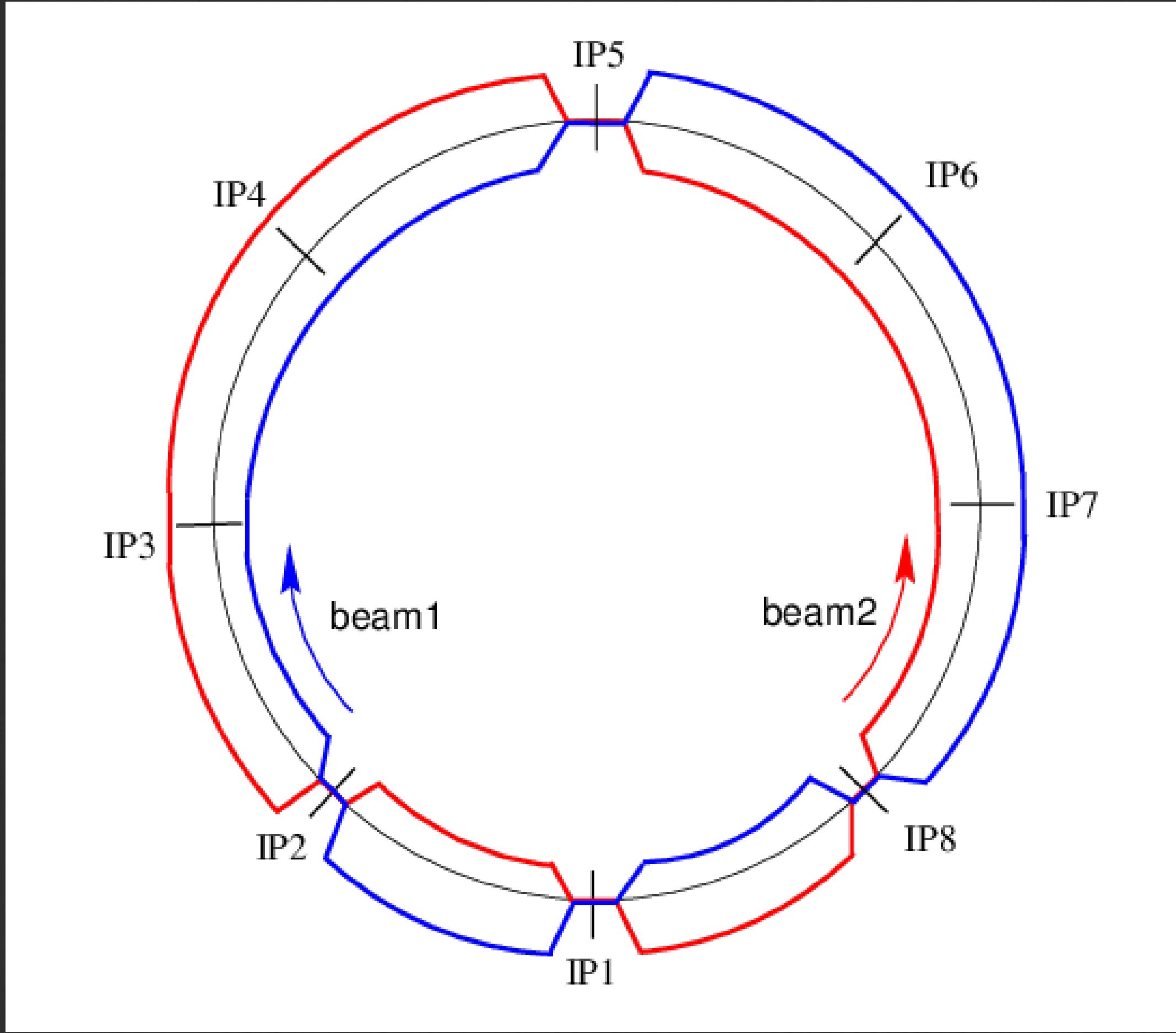
t°= -271.3° C (1.9K)

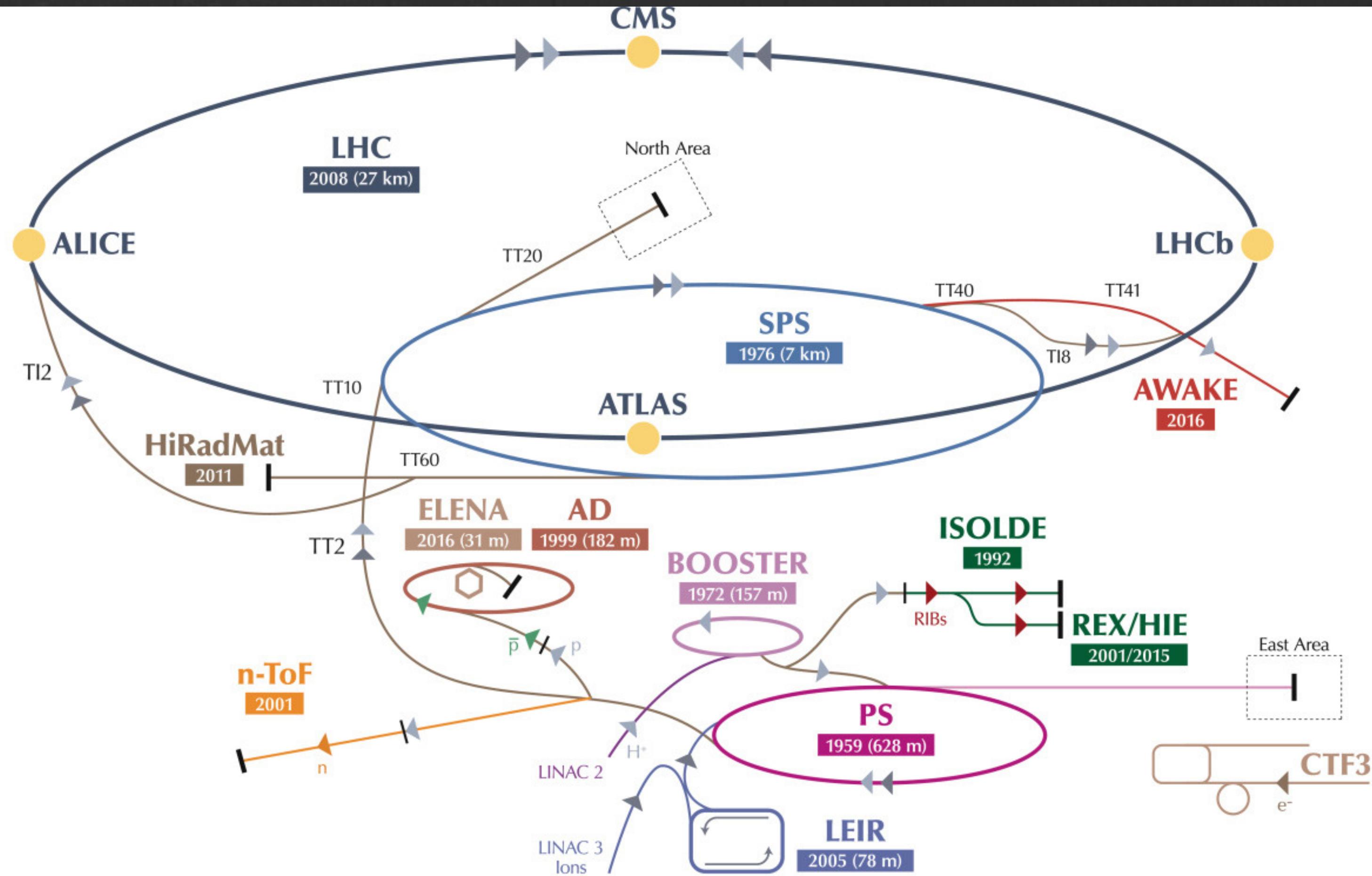
11850 A

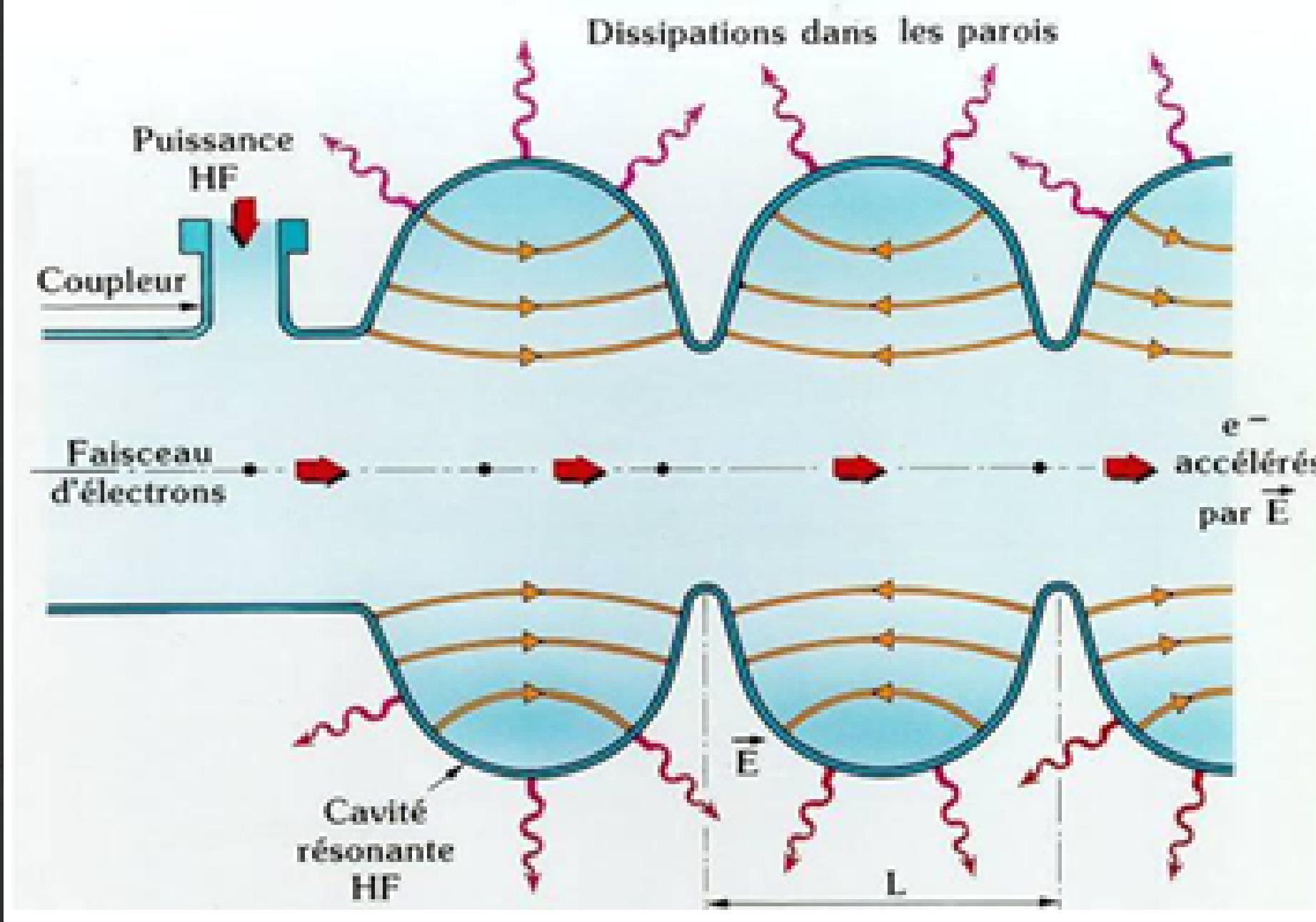
8.4 Tesla

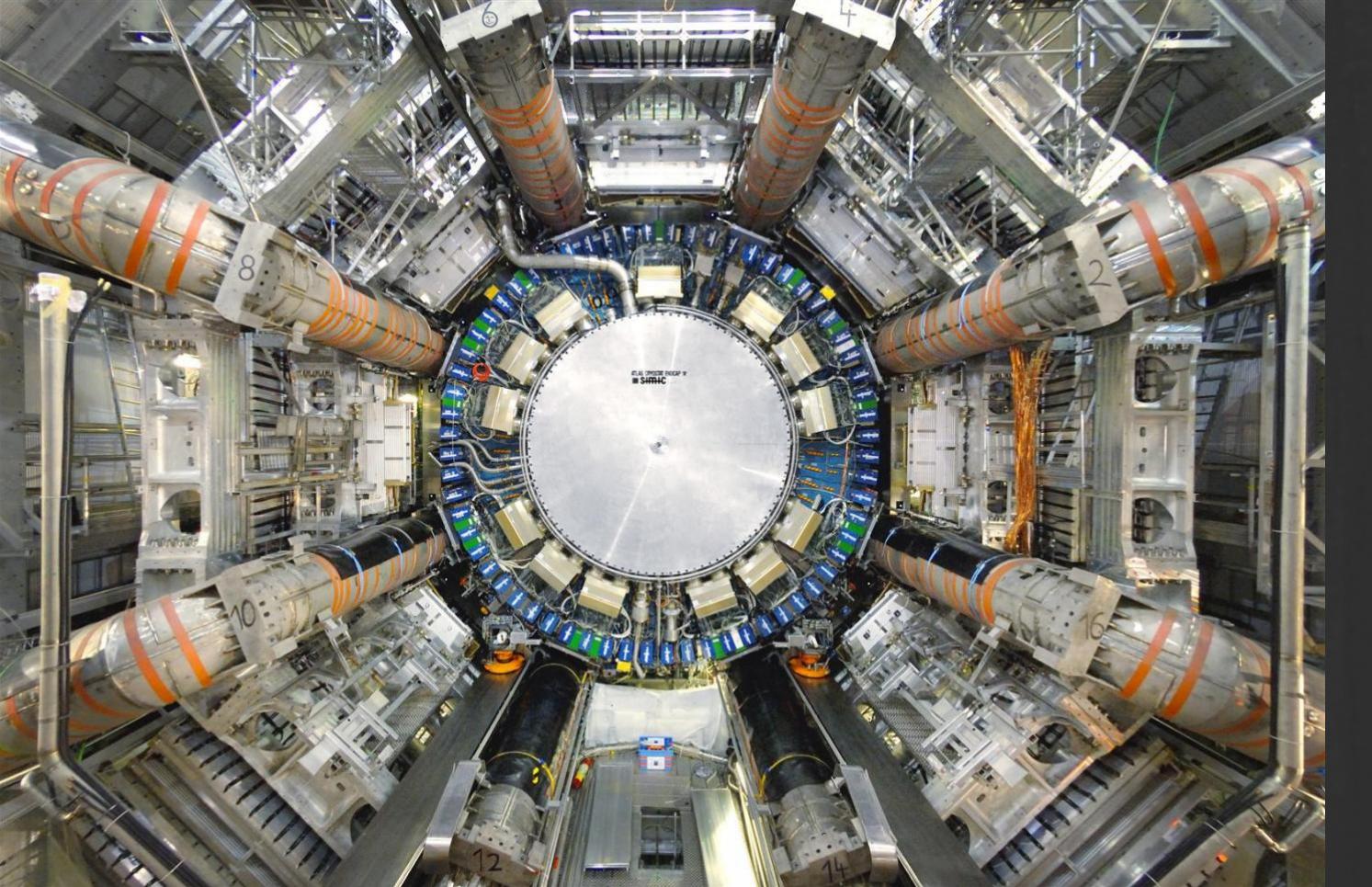


COLLISION DANS LE LHC





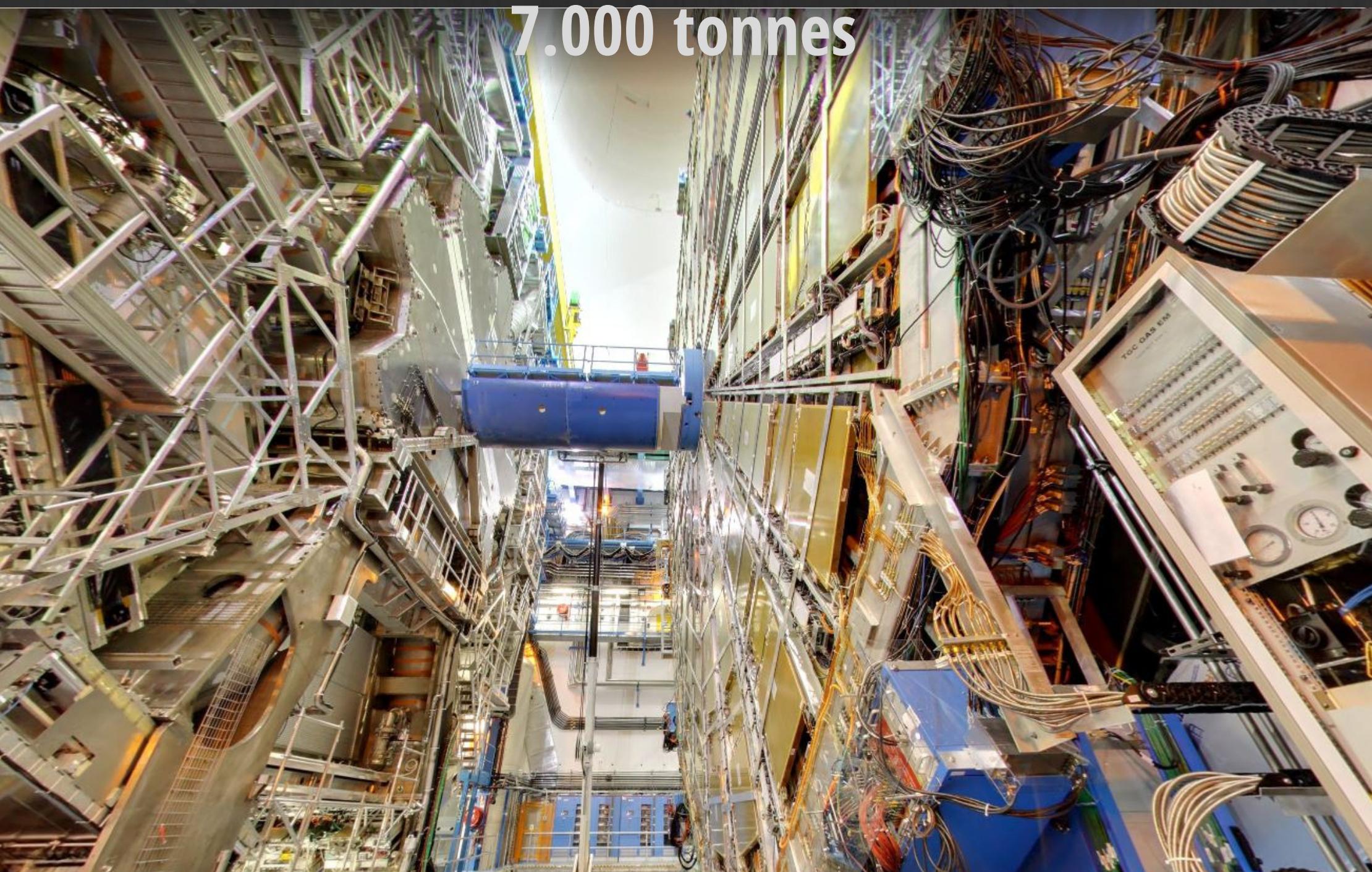




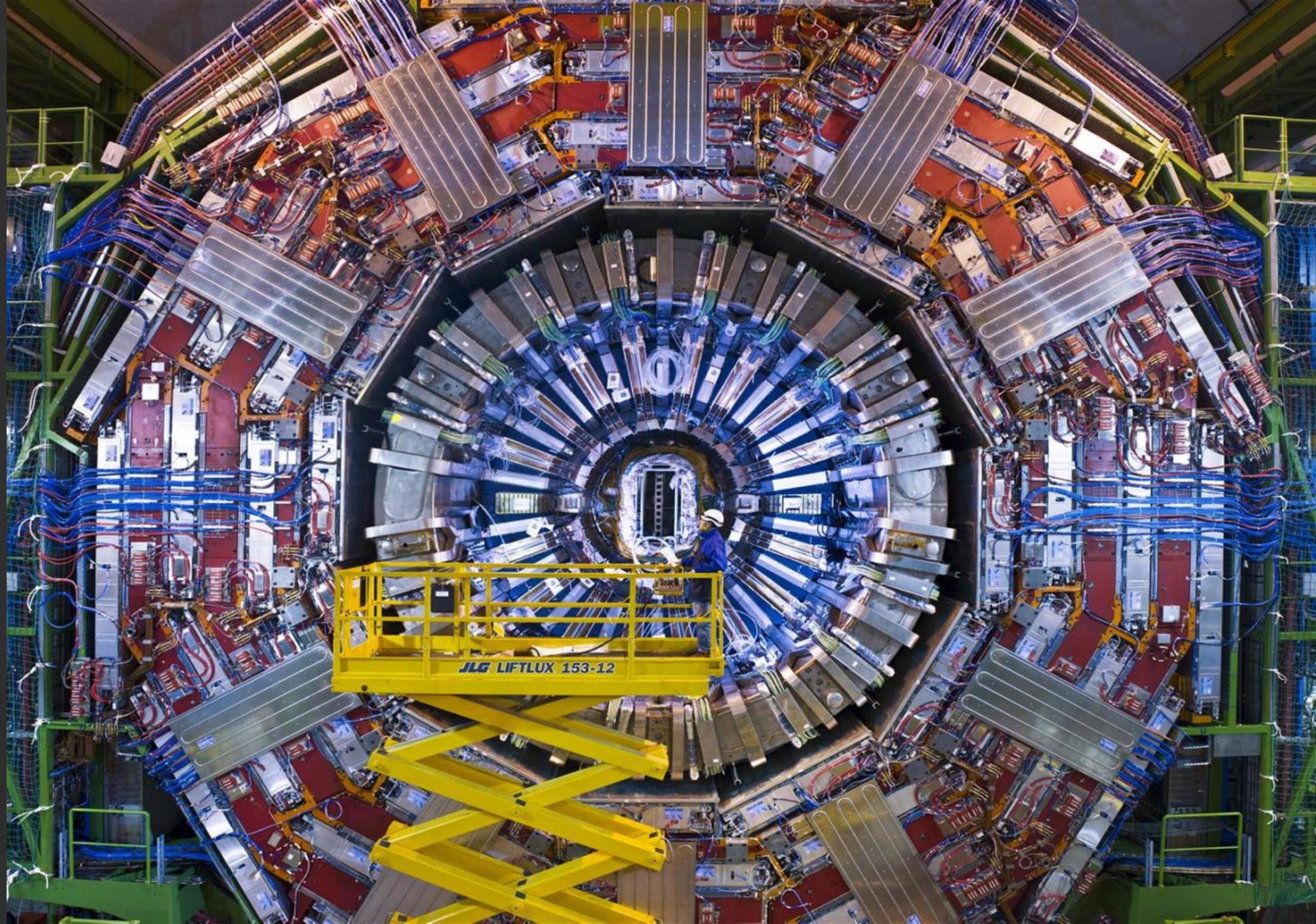
ATLAS:

46m x 25m x
25m

7.000 tonnes



CMS:
21m x 15m x
15m
14.000 tonnes

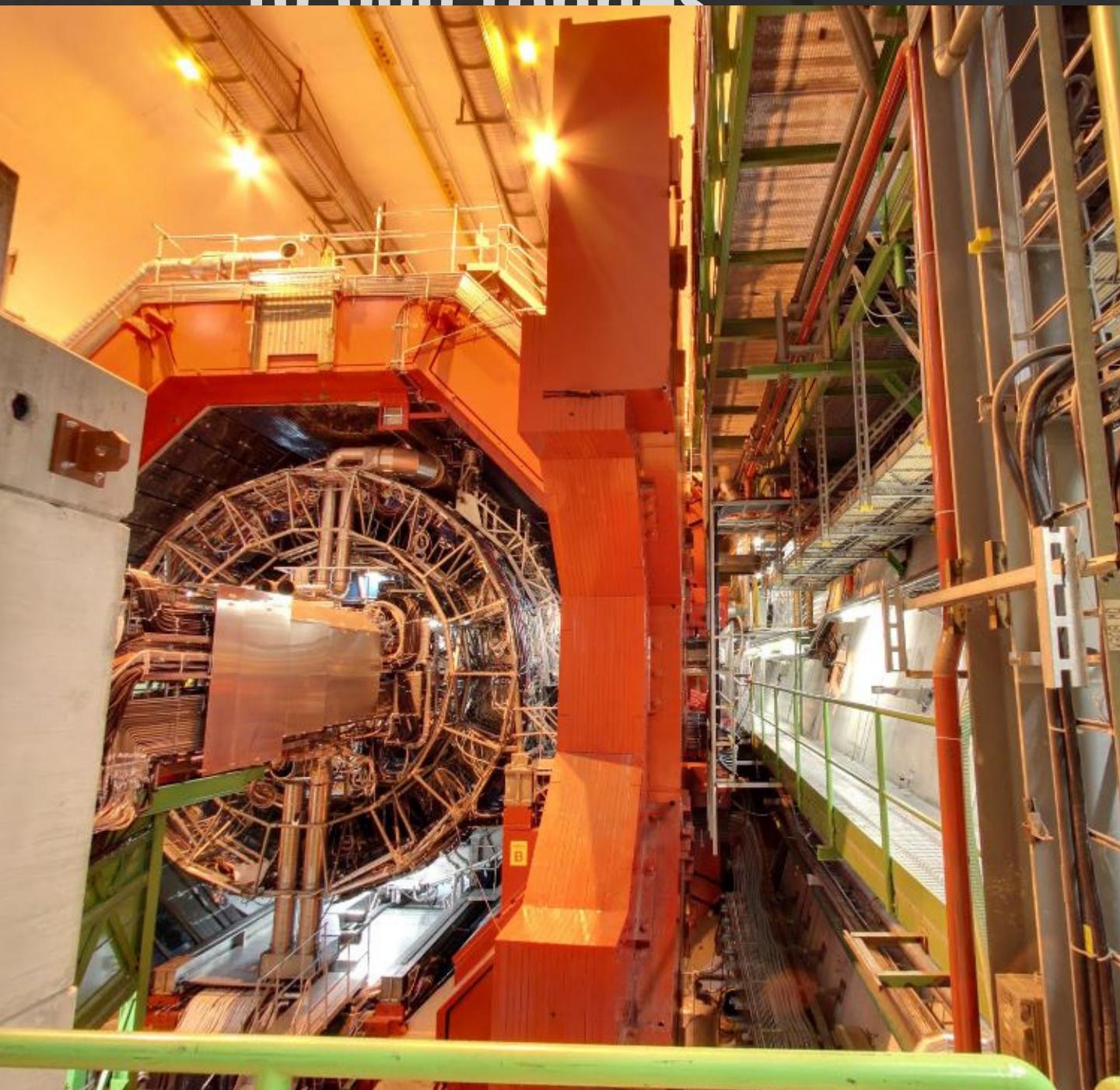


ALICE:

26m x 16m x

16m

10 000 tonnes

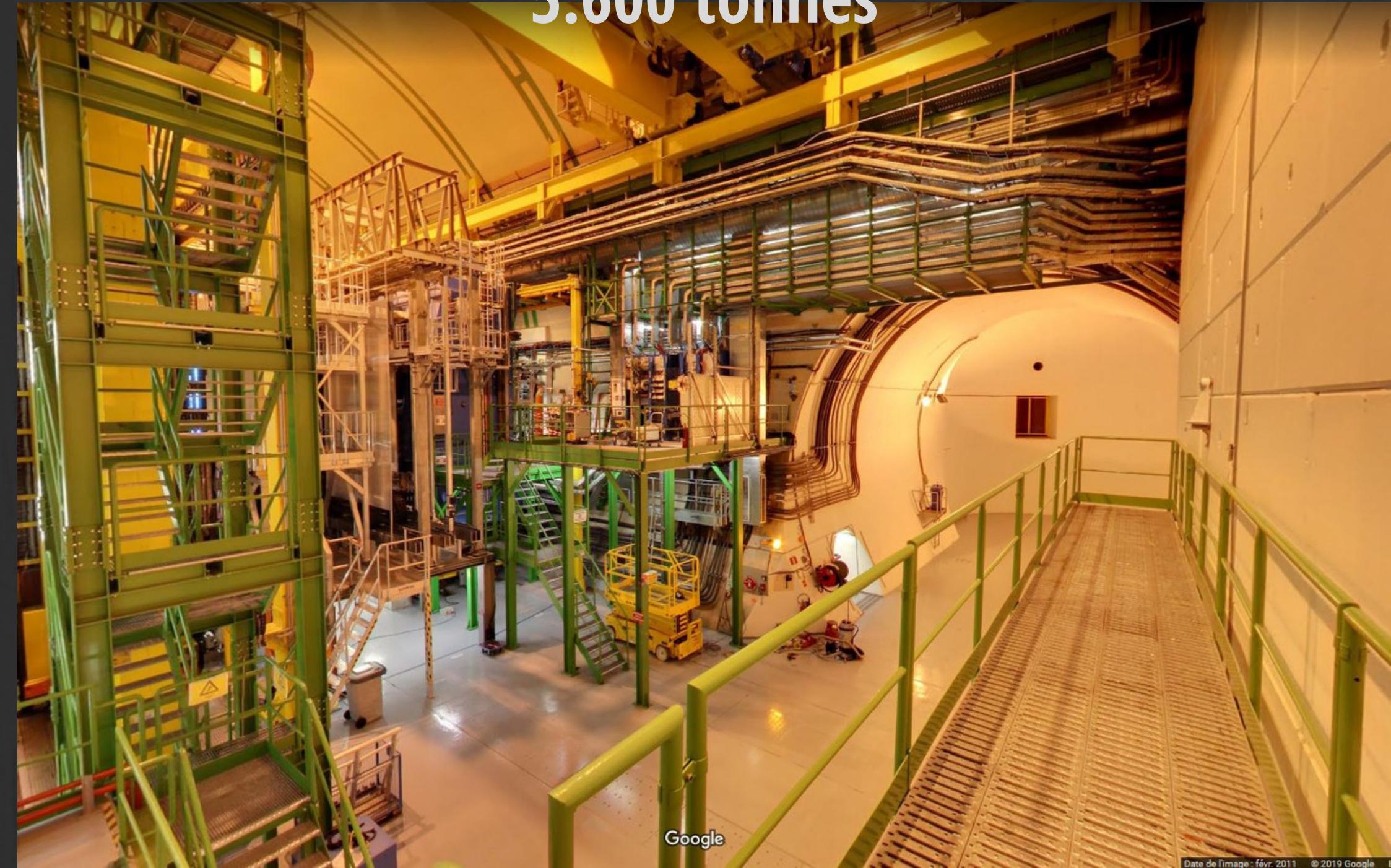


LHCb:

21m x 13m x

10m

5.600 tonnes



Sources:

<https://visit.cern.fr/tours/visites-en-ligne>

<https://home.cern/fr/about>

https://fr.wikipedia.org/wiki/Organisation_europ%C3%A9enne_pour_la_recherche_nucl%C3%A9aire

Dangers du trou noir du LHC:

<https://www.forbes.com/sites/startswithabang/2016/03/11/could-the-lhc-make-an-earth-killing-black-hole/#537de5e12ed5>

Video:

- La représentation des particules:

<https://videos.cern.ch/record/2307614>

- Description du trajet:

<https://videos.cern.ch/record/1179452>

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<https://home.cern/fr/science/accelerators/about/engineering/vacuum-empty-interplanetary-space>