

## Sur le terrain du futur institut nucléaire



Sous la conduite de M. A. Picot, les membres du Conseil européen pour la recherche nucléaire se sont rendus hier à Meyrin pour reconnaître le terrain où s'élèvera le Centre nucléaire (voir en Dernière heure)

(Photo Freddy Bertrand, Genève)





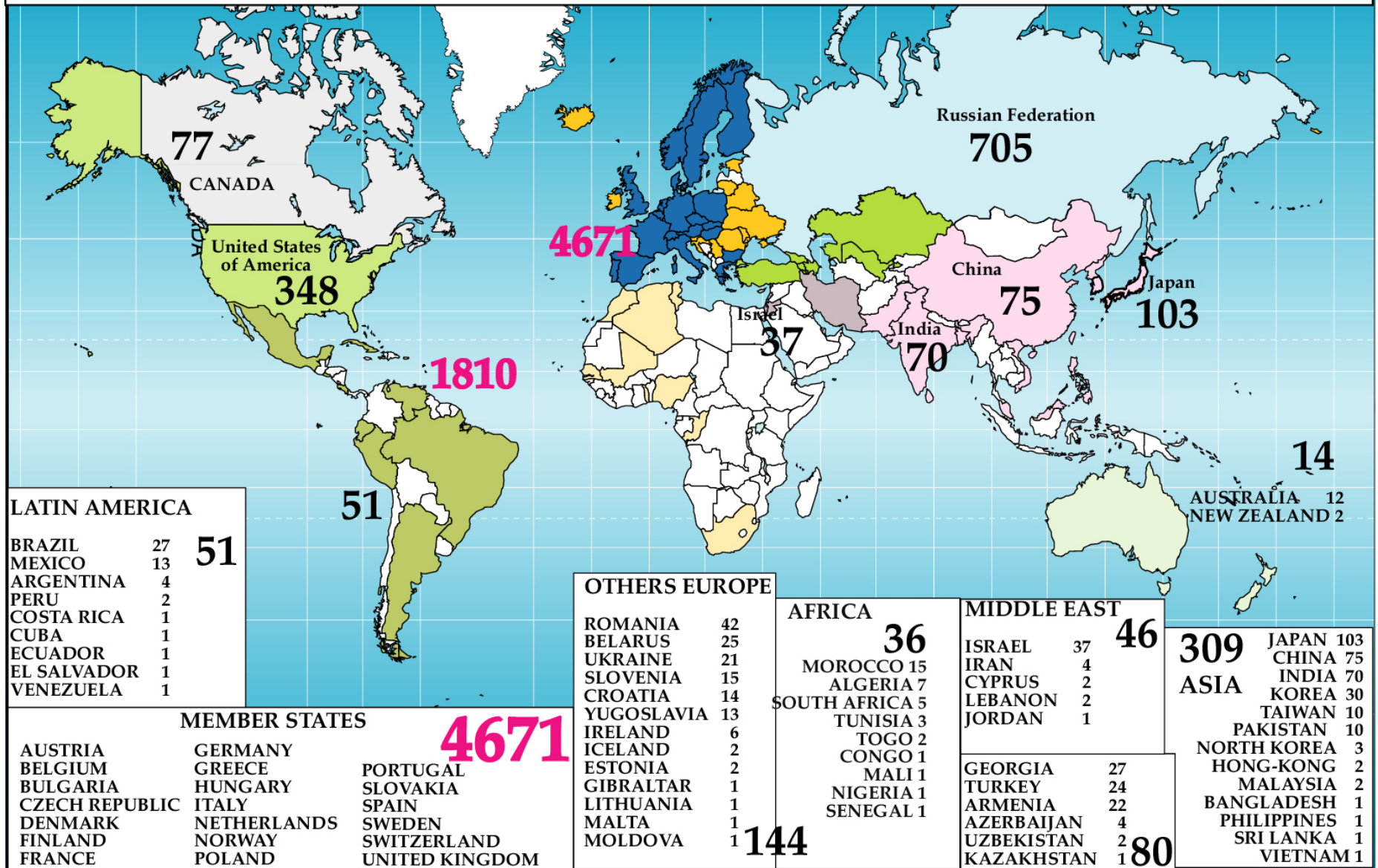
# The Twenty Member States of CERN



## Member States (Dates of Accession)

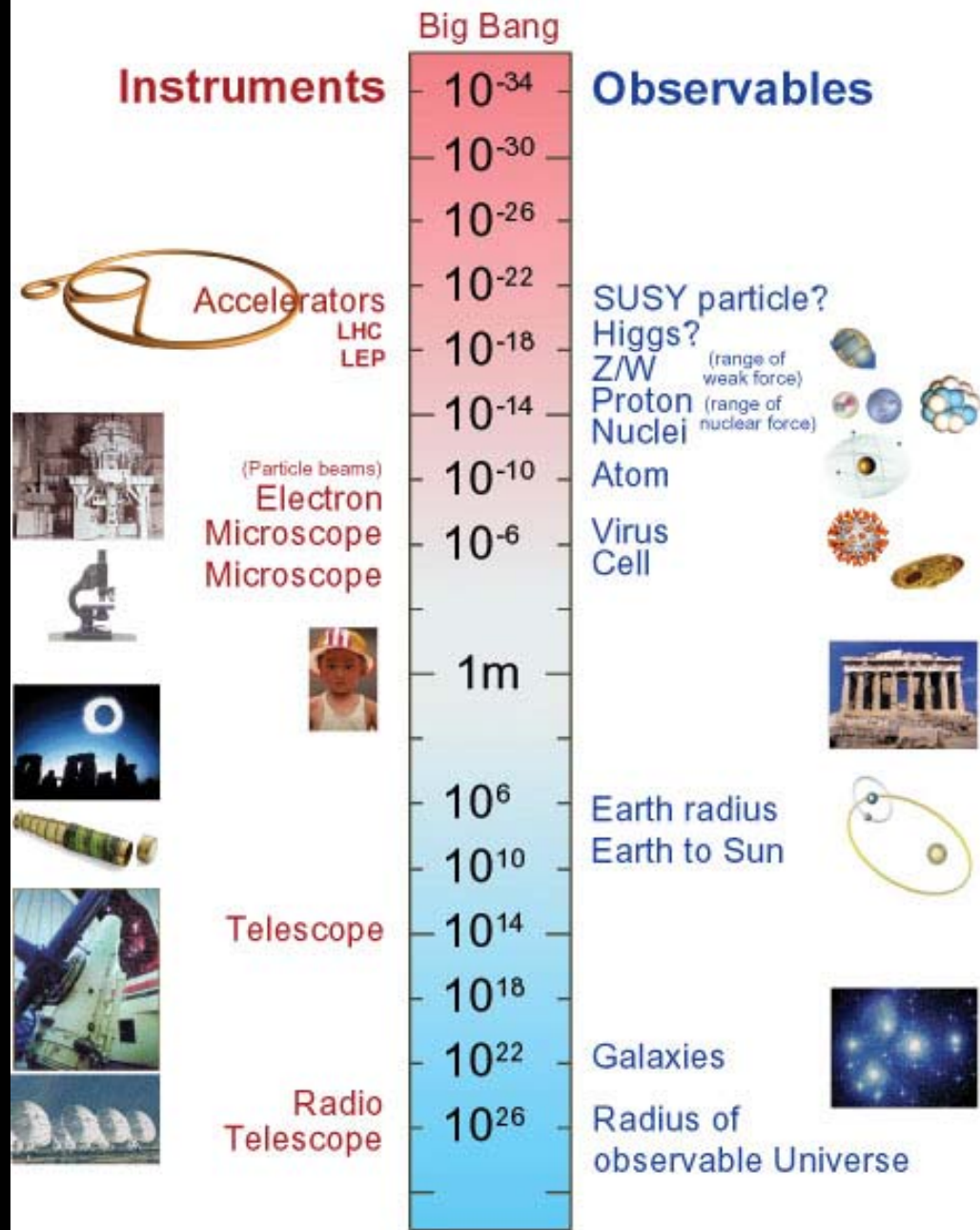
	AUSTRIA (1959)		DENMARK (1953)		GREECE (1953)		NORWAY (1953)		SPAIN (1/1961-12/1968-1/1983)
	BELGIUM (1953)		FINLAND (1991)		HUNGARY (1992)		POLAND (1991)		SWEDEN (1953)
	BULGARIA (1999)		FRANCE (1953)		ITALY (1953)		PORTUGAL (1986)		SWITZERLAND (1953)
	CZECH FR (1993)		GERMANY (1953)		NETHERLANDS (1953)		SLOVAK FR (1993)		UNITED KINGDOM (1953)

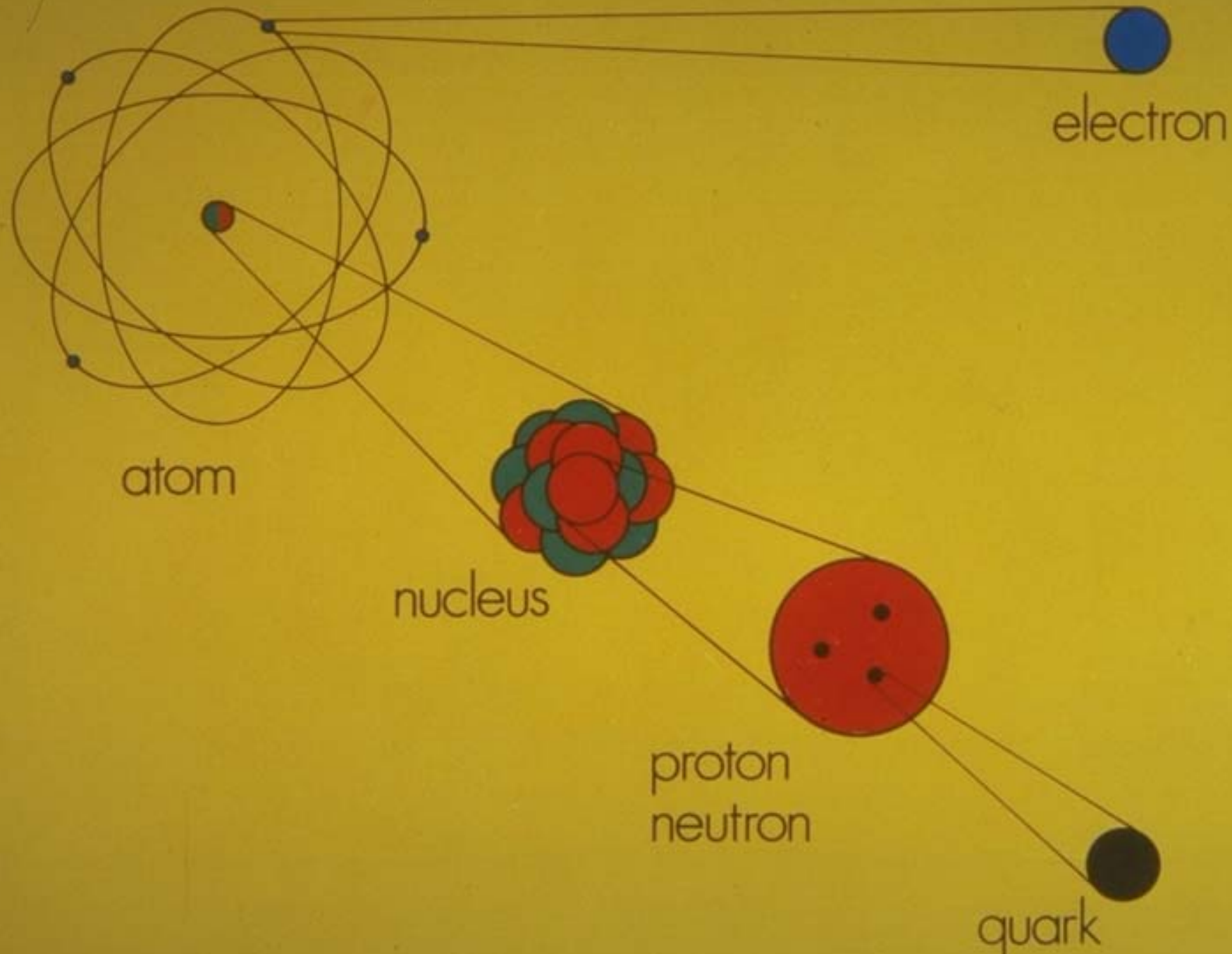
# Distribution of All CERN Users by Nationality on May 1, 2001





# The size of things

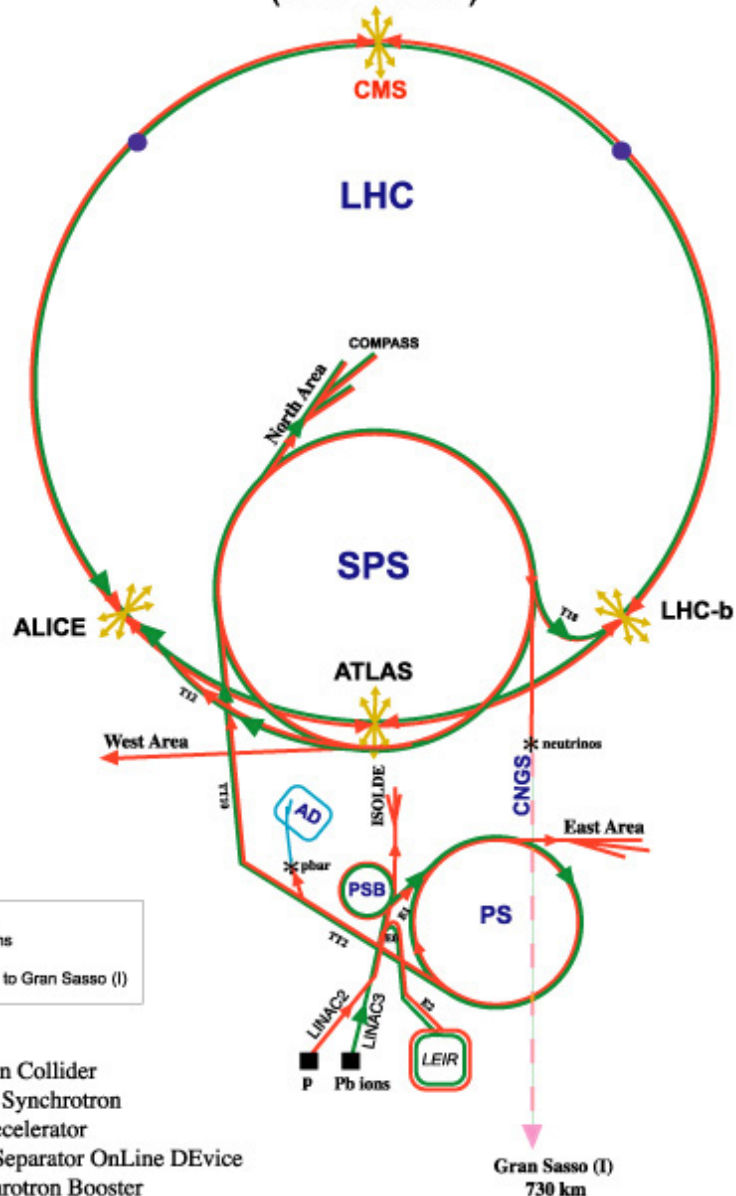






# CERN Accelerators

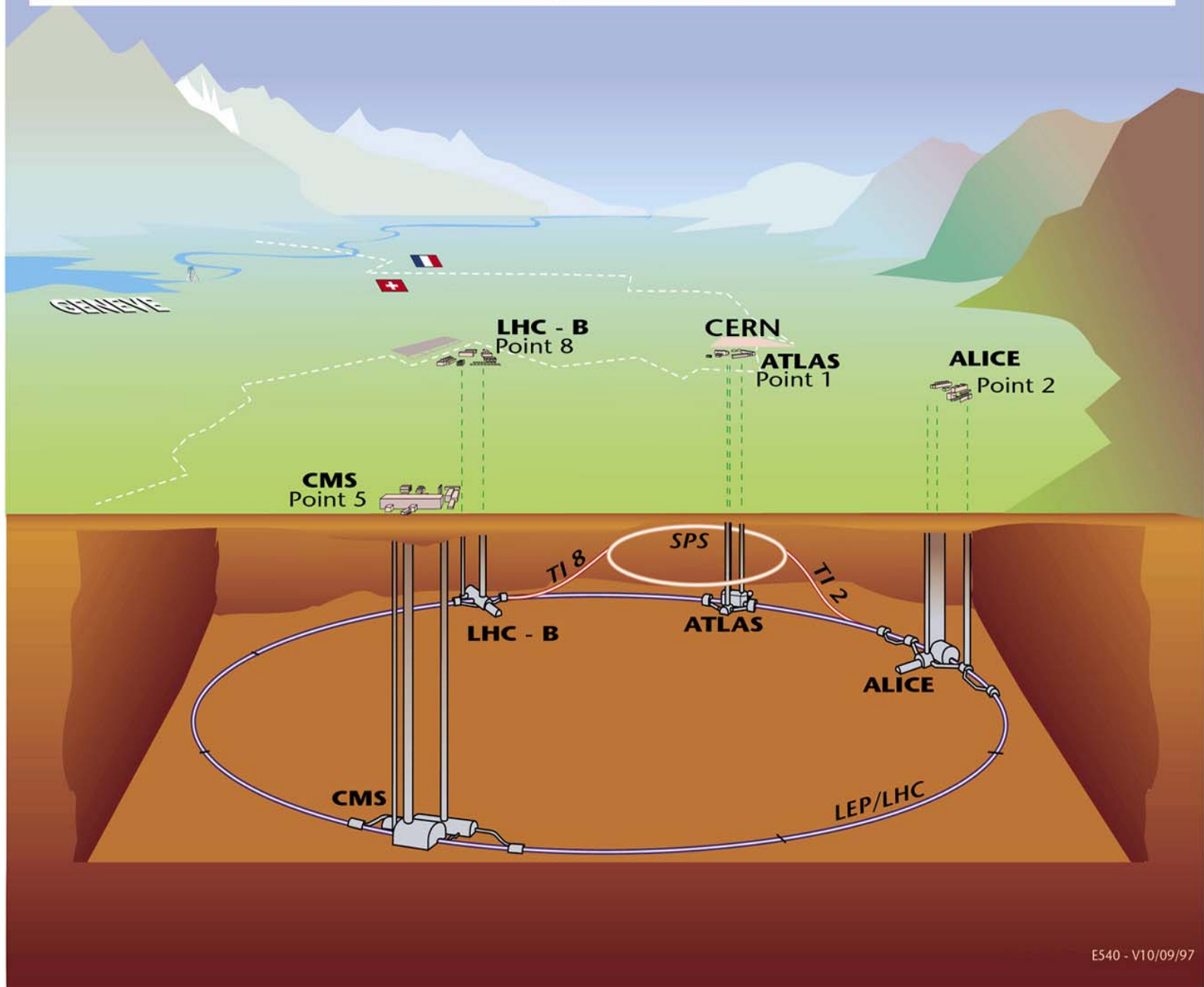
(not to scale)

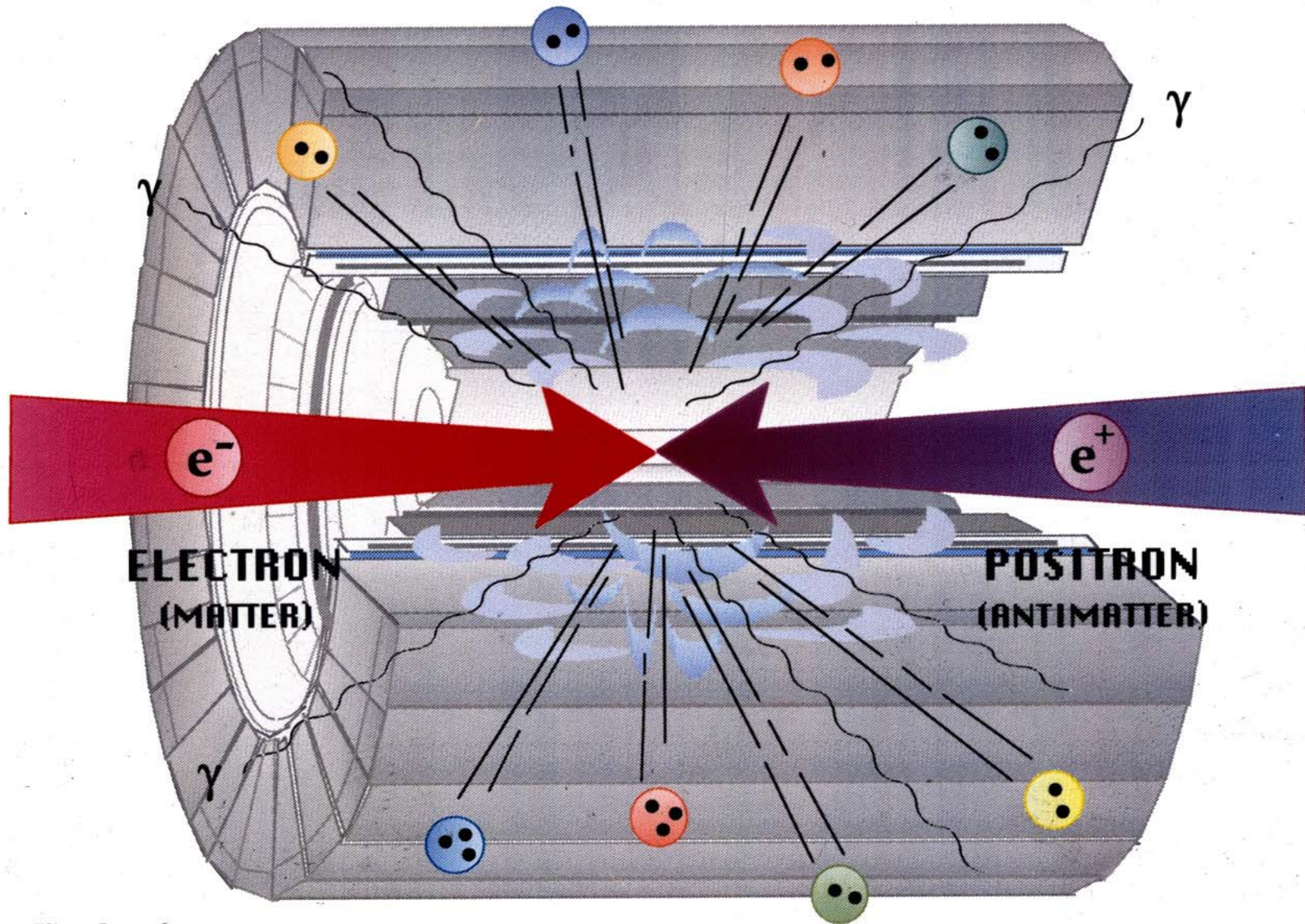


LHC: Large Hadron Collider  
 SPS: Super Proton Synchrotron  
 AD: Antiproton Decelerator  
 ISOLDE: Isotope Separator OnLine DEvice  
 PSB: Proton Synchrotron Booster  
 PS: Proton Synchrotron  
 LINAC: LINear ACCELERATOR  
 LEIR: Low Energy Ion Ring  
 CNGS: Cern Neutrinos to Gran Sasso

Rudolf LEY, PS Division, CERN, 02.09.96  
 Revised and adapted by Antonella Del Rosso, ETT D6  
 in collaboration with B. Desforges, SL Div., and  
 D. Musielki, PS Div. CERN, 23.05.01

# Overall view of the LHC experiments.





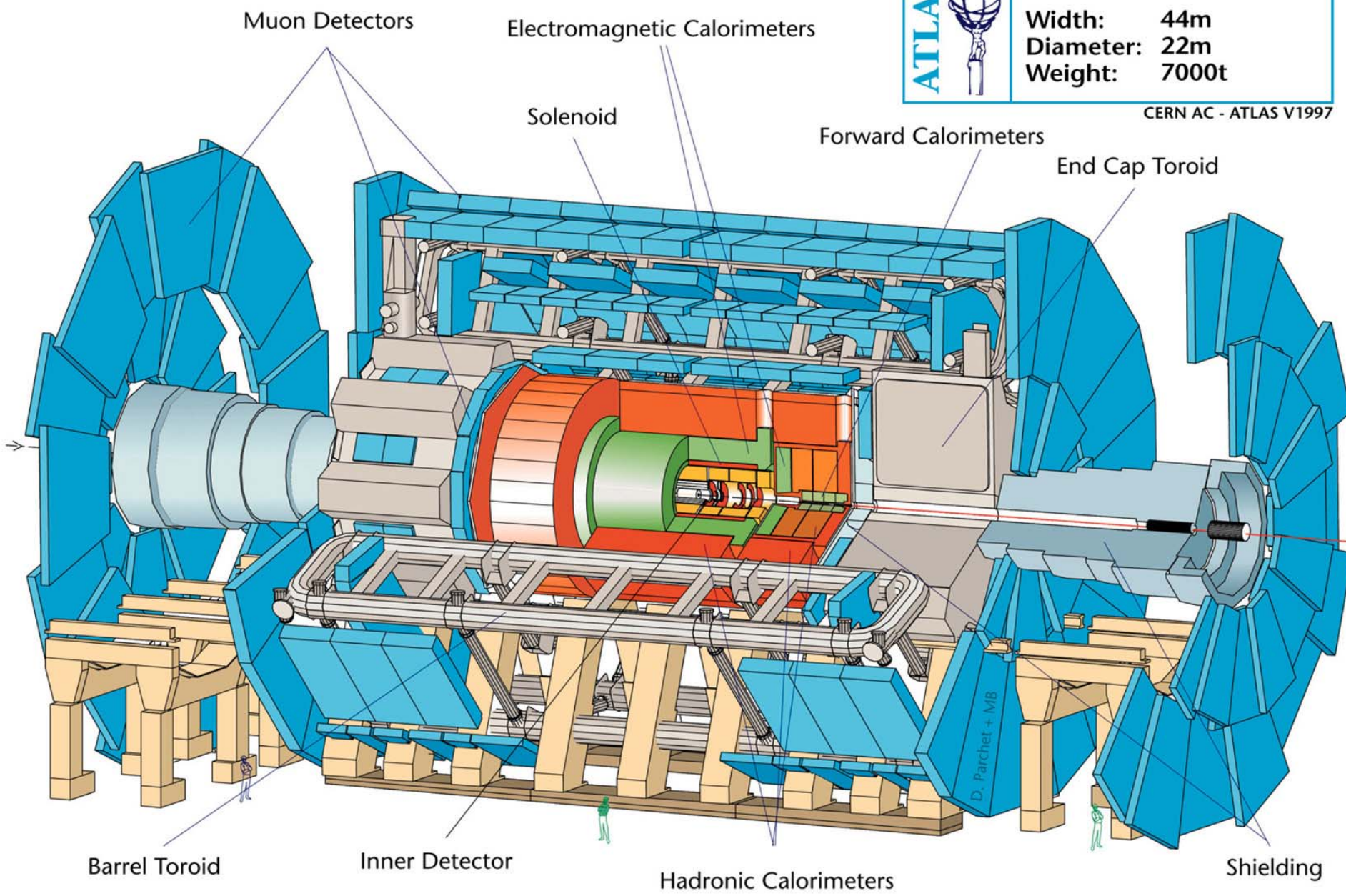
ATLAS



### Detector characteristics

Width: 44m  
Diameter: 22m  
Weight: 7000t

CERN AC - ATLAS V1997



Muon Detectors

Electromagnetic Calorimeters

Solenoid

Forward Calorimeters

End Cap Toroid

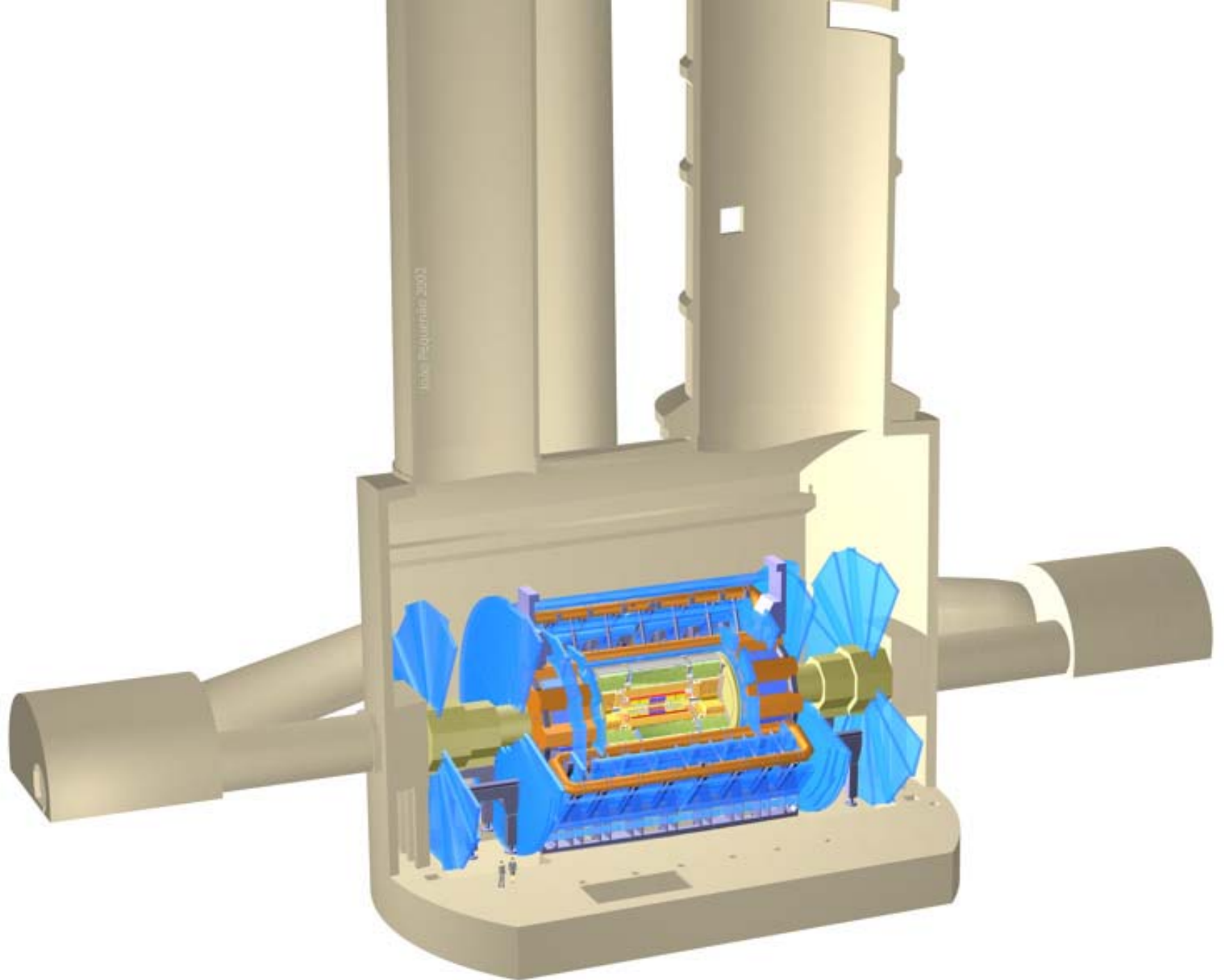
Barrel Toroid

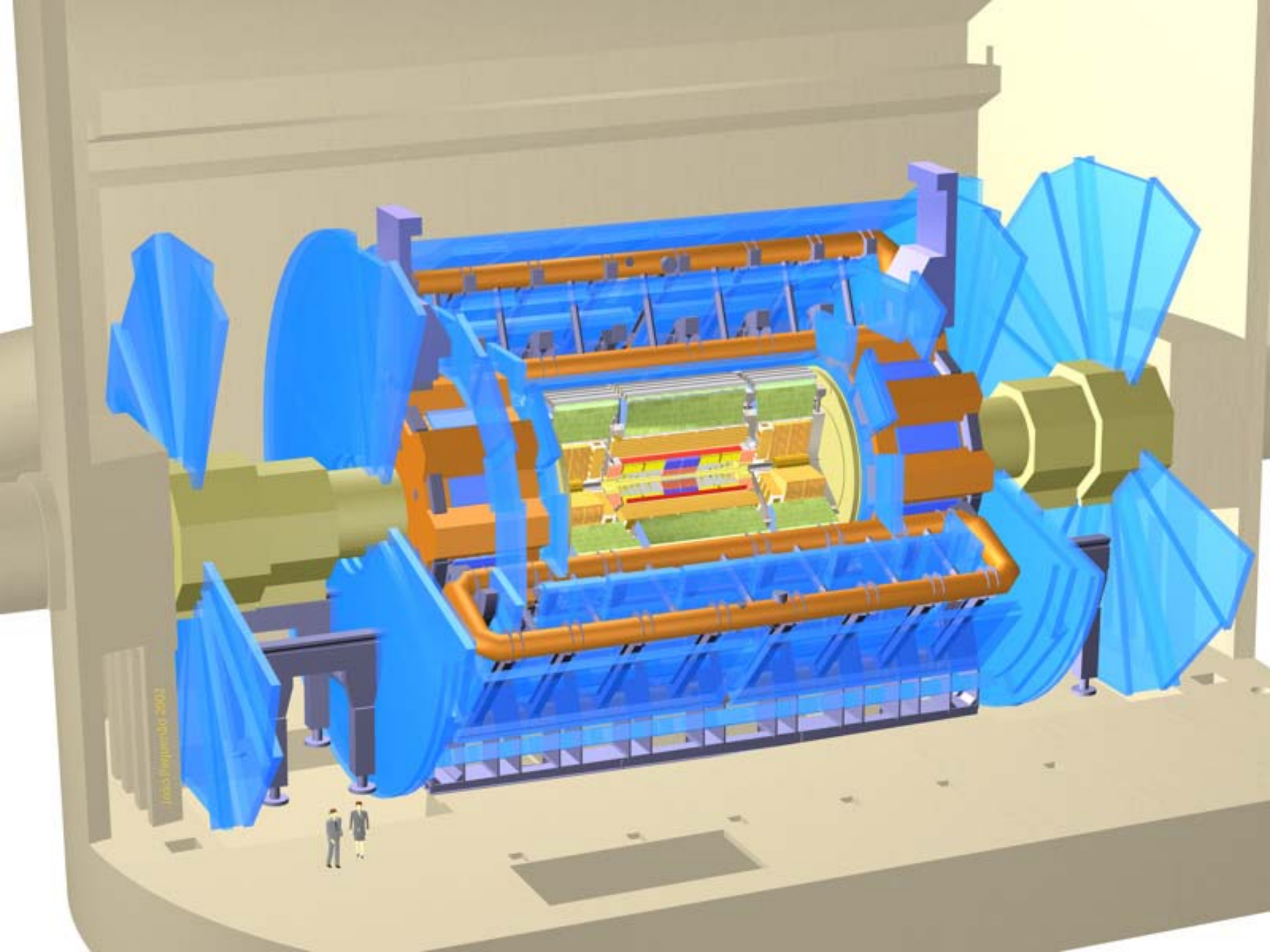
Inner Detector

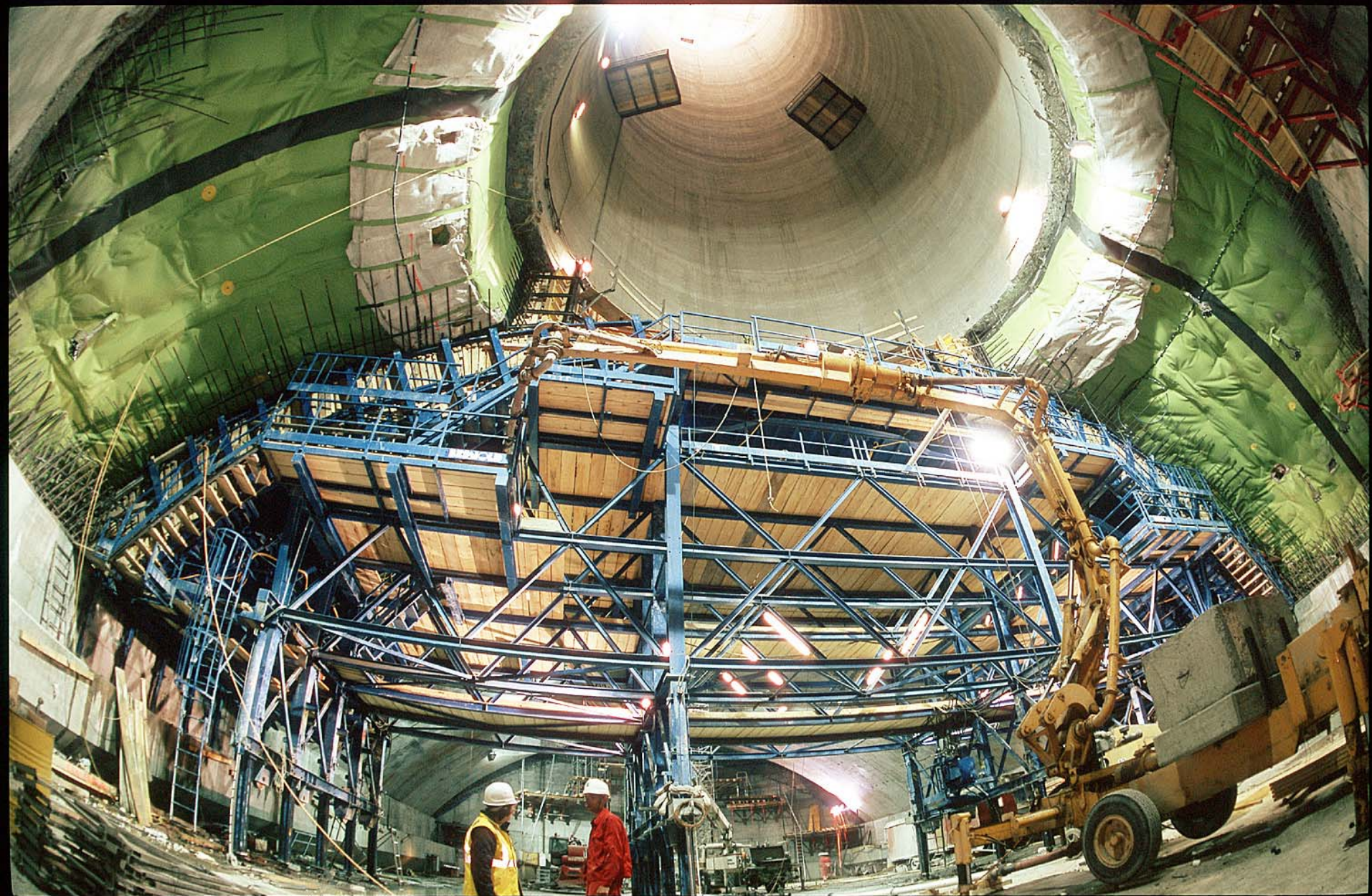
Hadronic Calorimeters

Shielding

D. Parquet + MB

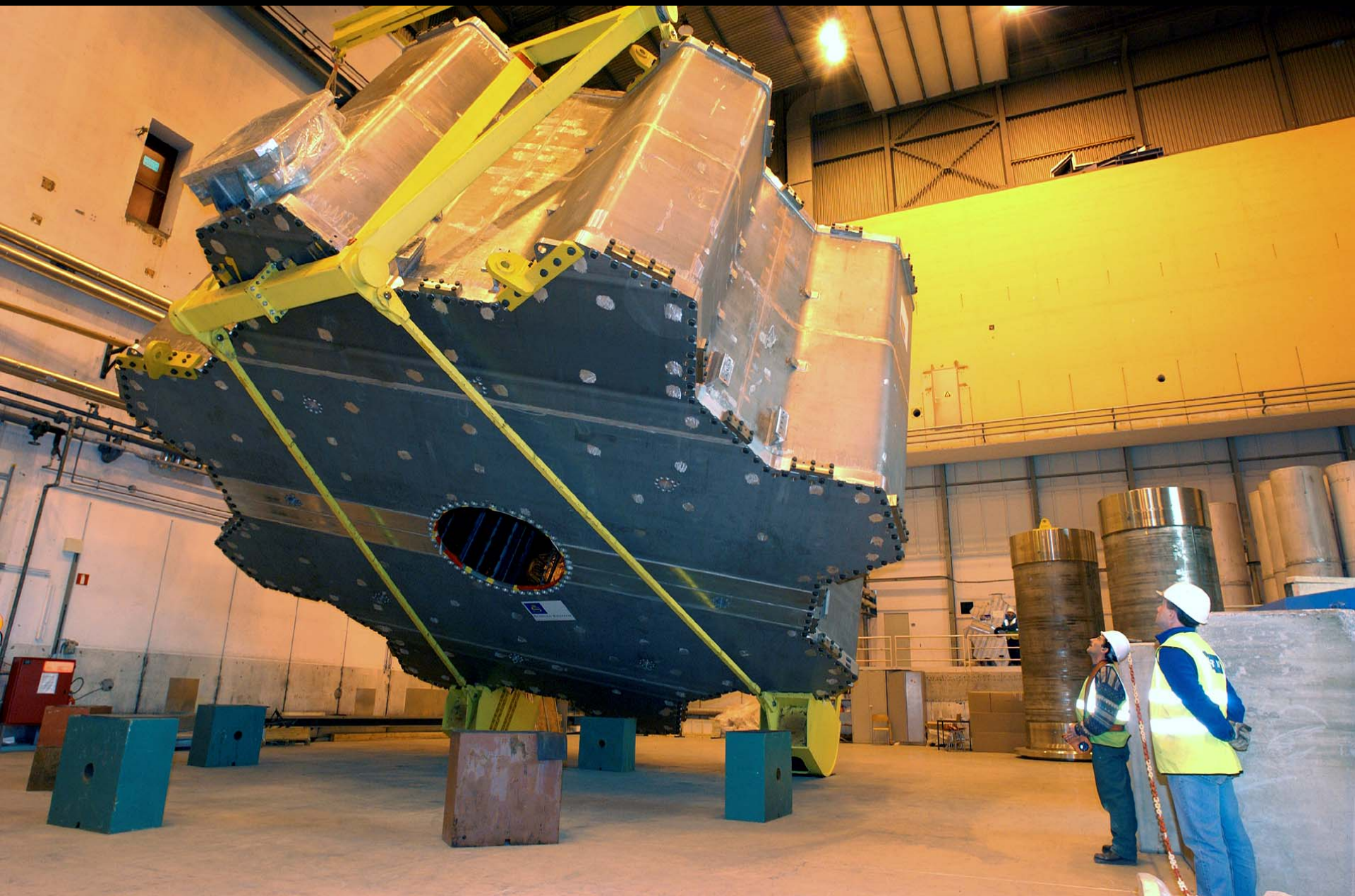


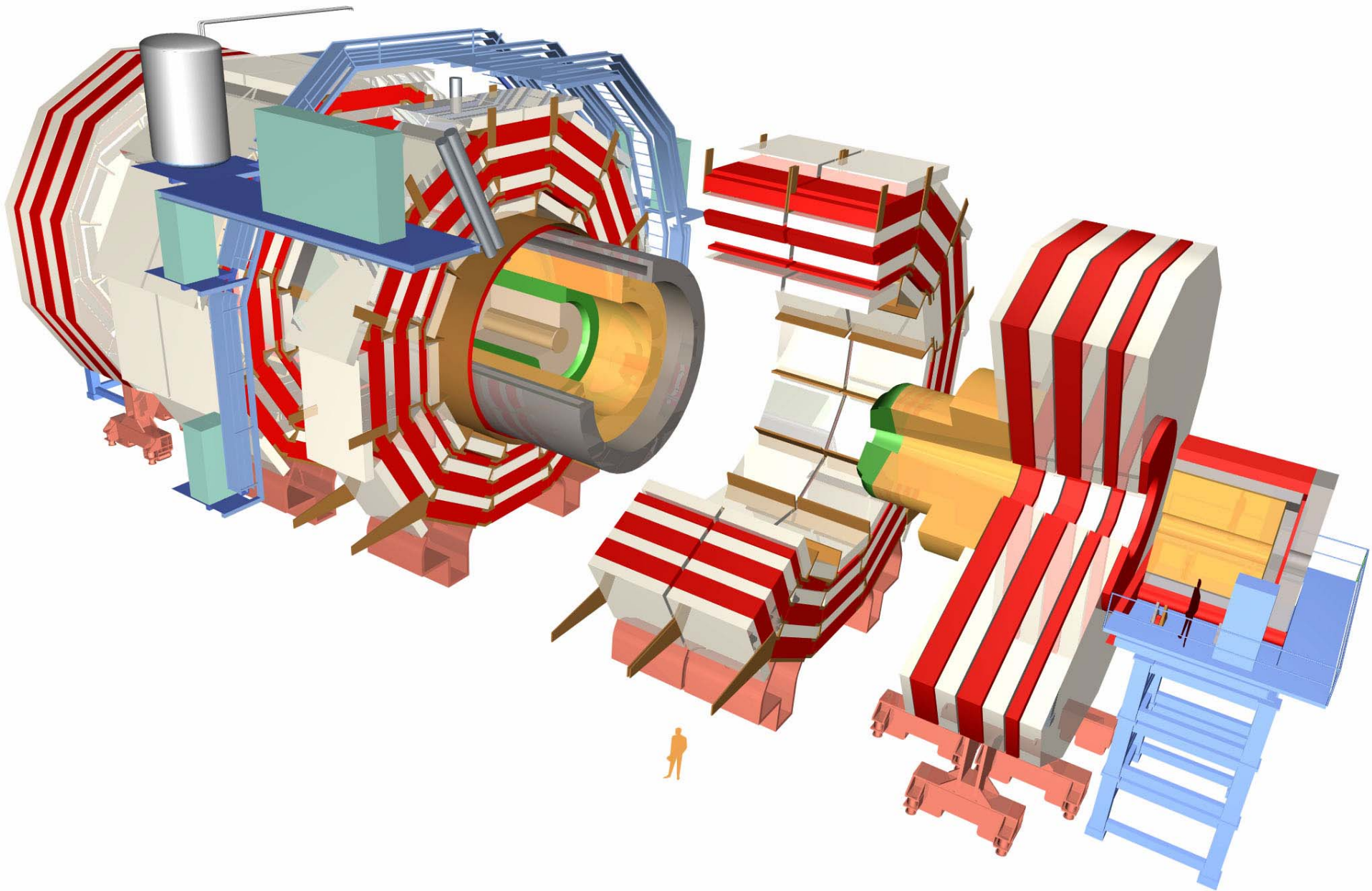
















# The LHC Short Straight Section

