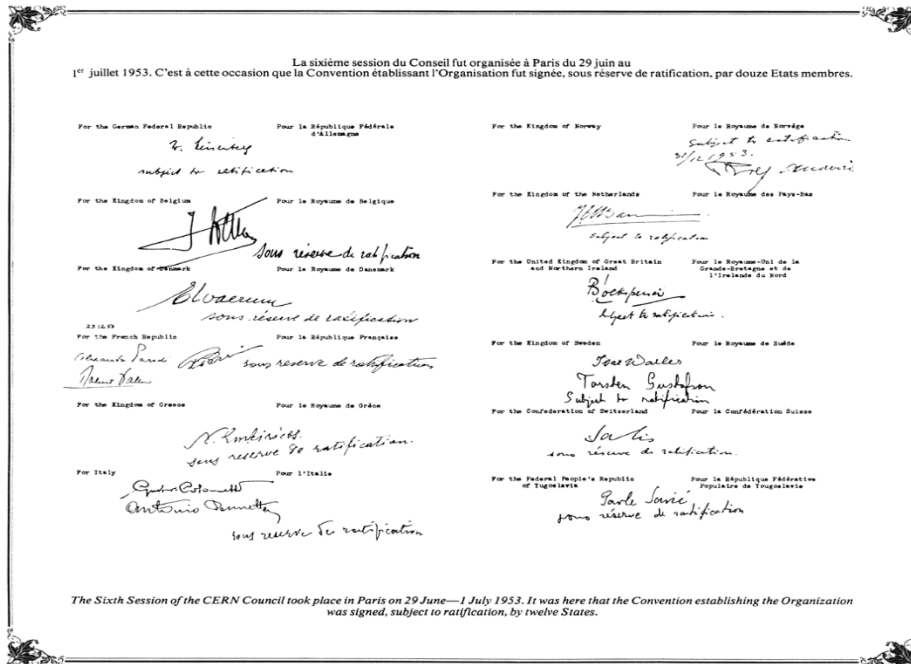




CERN

European Organization for Nuclear Research

- Founded in 1954 by 12 countries
- Now: 22 member states, 4 associate MS (India, Pakistan, Turkey and Ukraine) + 2 observers EU and UNESCO)
- Serbia, Cyprus and Slovenia are in pre-stage to membership
- More than 12000 users from all over the world

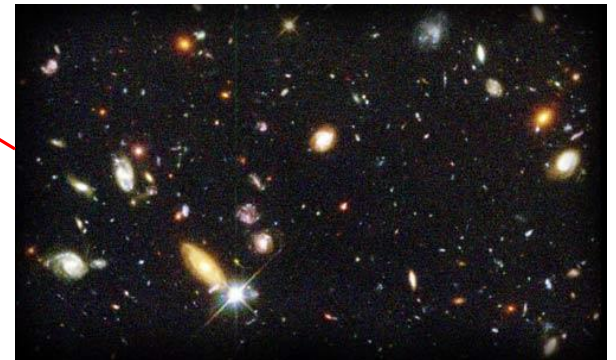
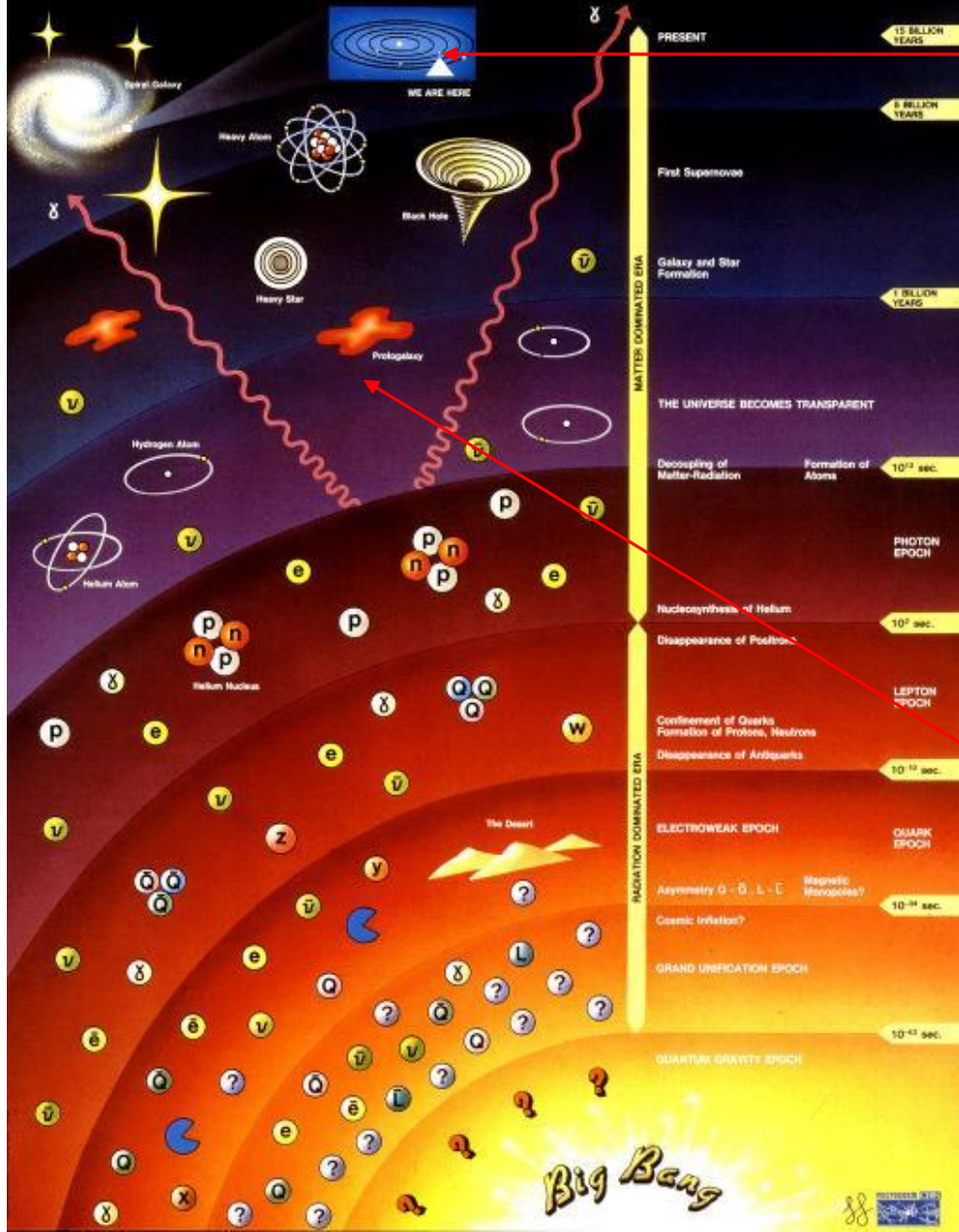


1954: Convention establishing the Organization - original signatures



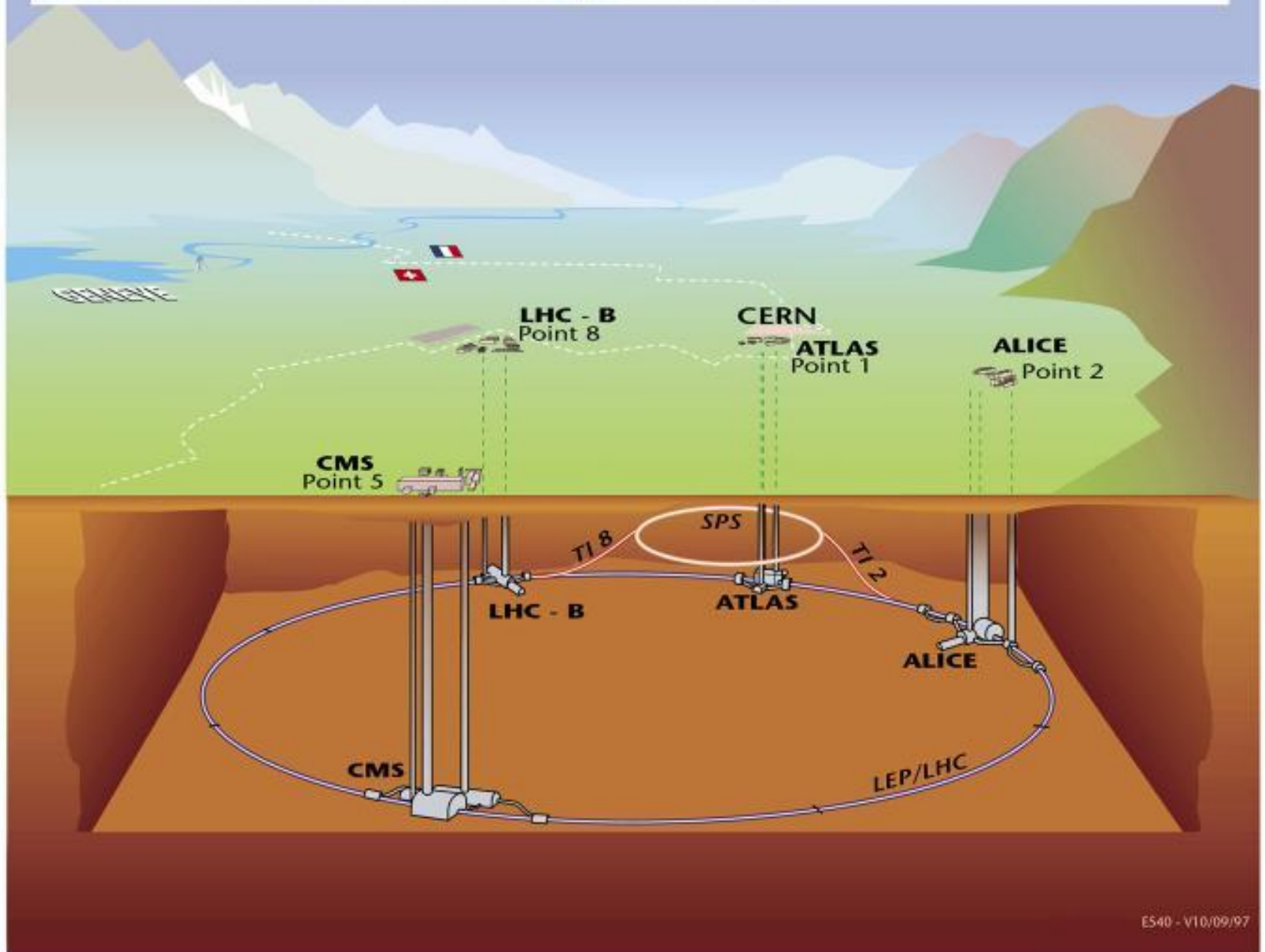
The 22 member states

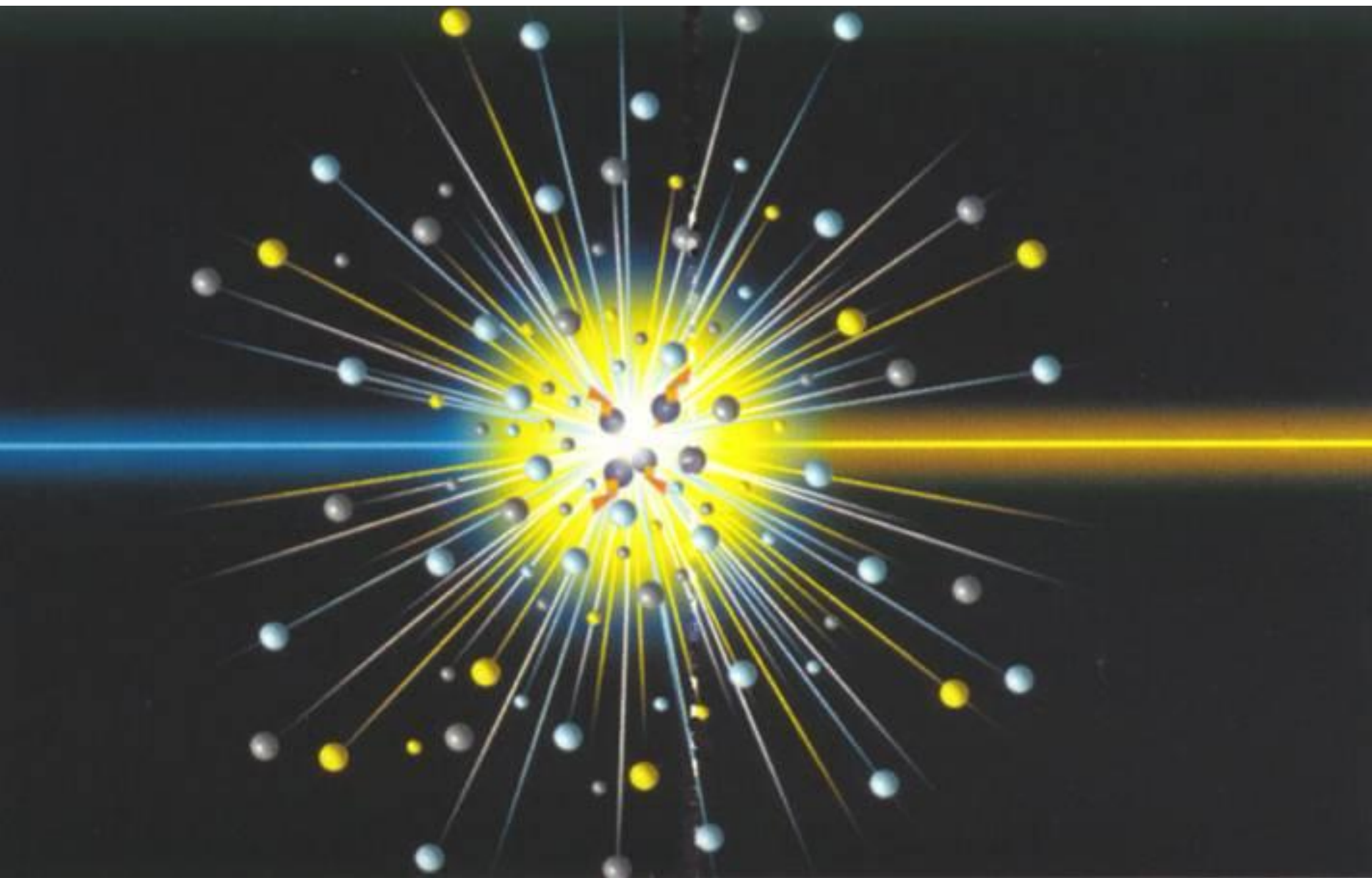
History of the Universe

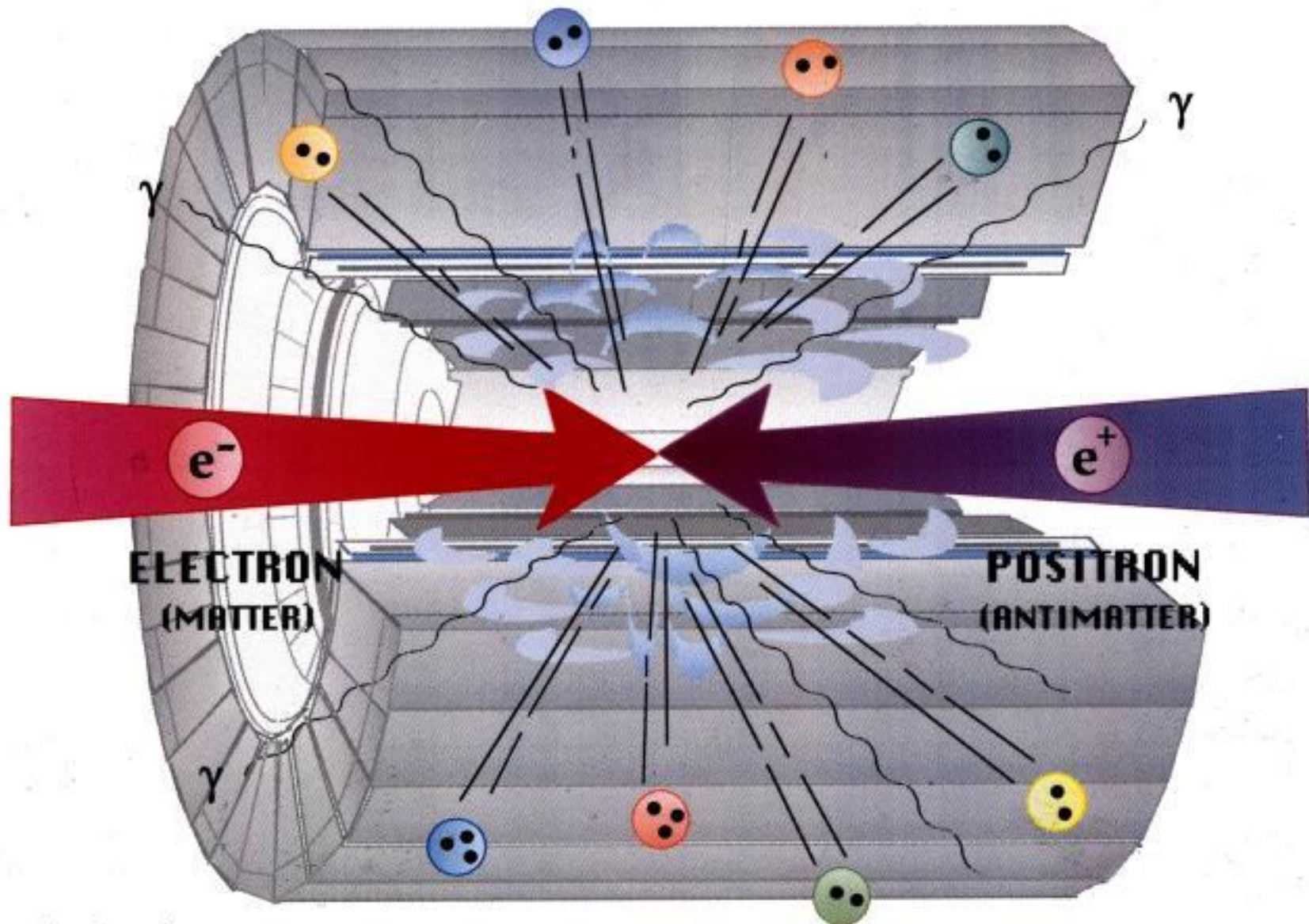




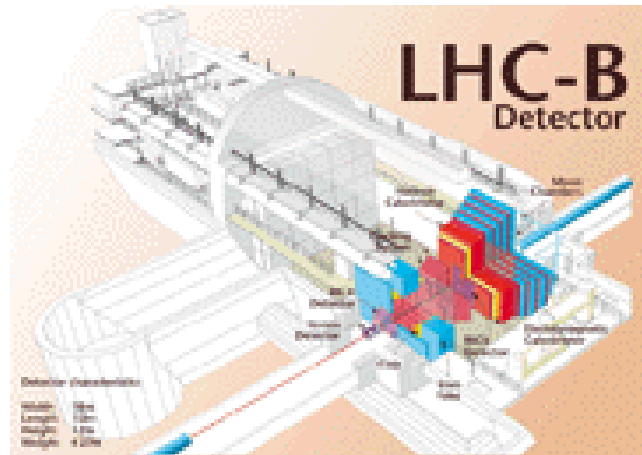
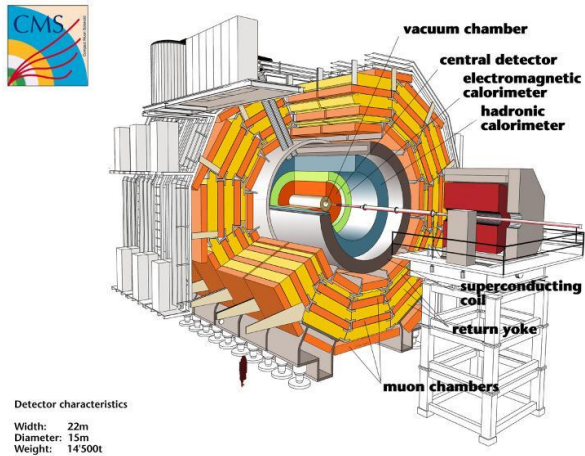
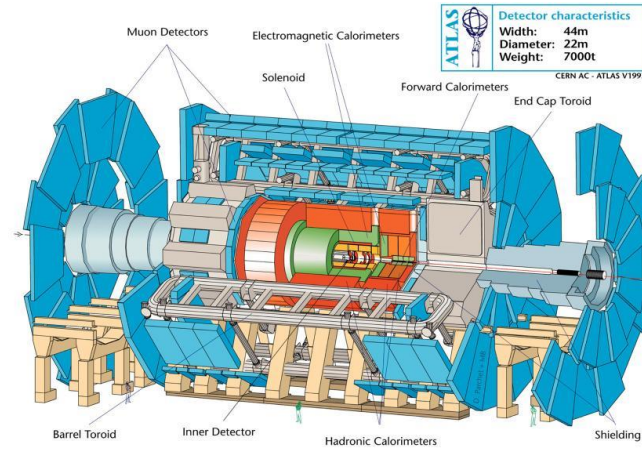
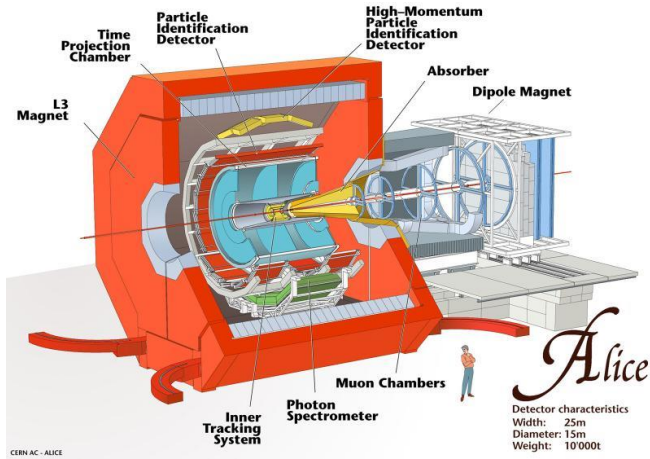
Overall view of the LHC experiments.

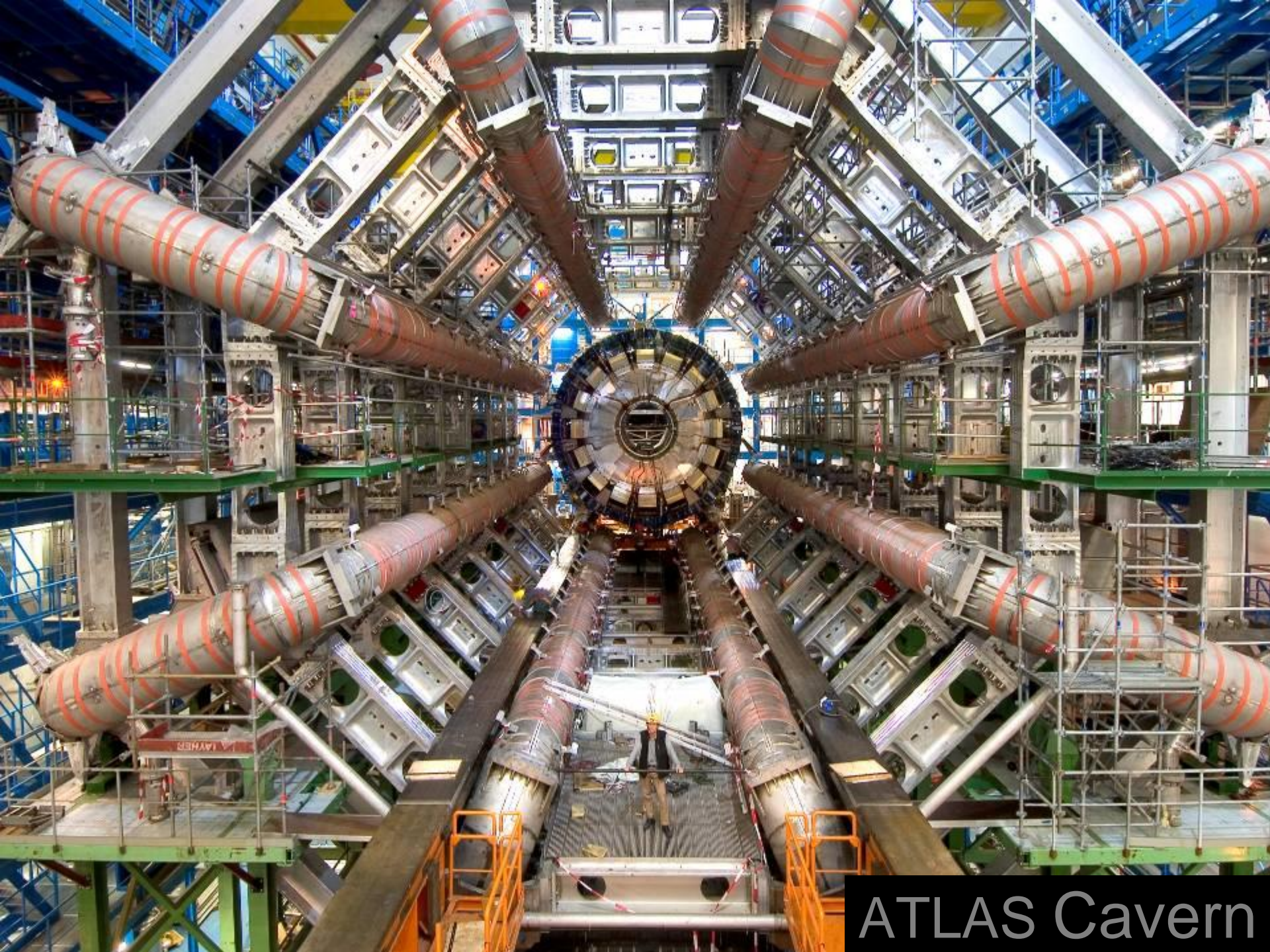






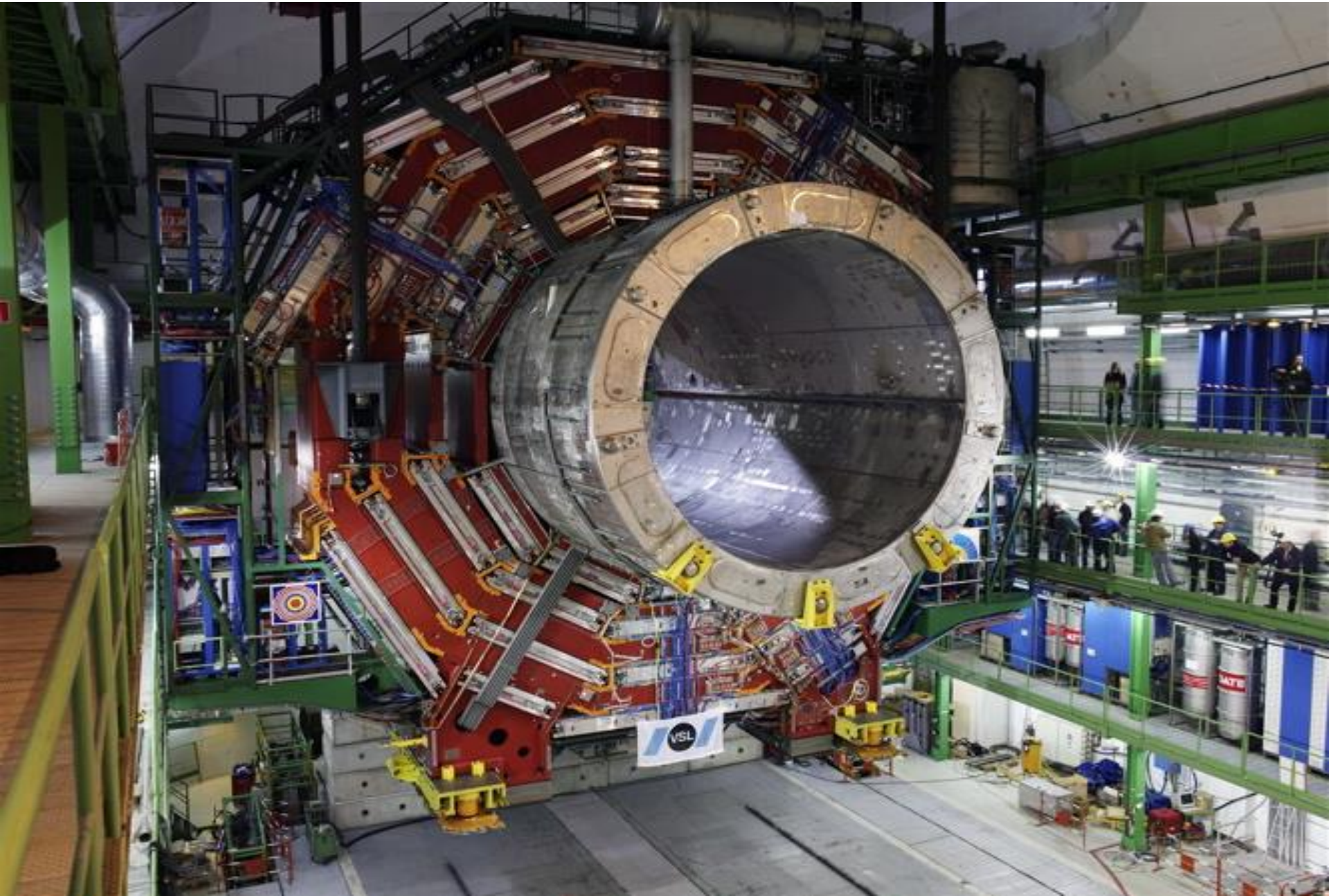
LHC Experiments





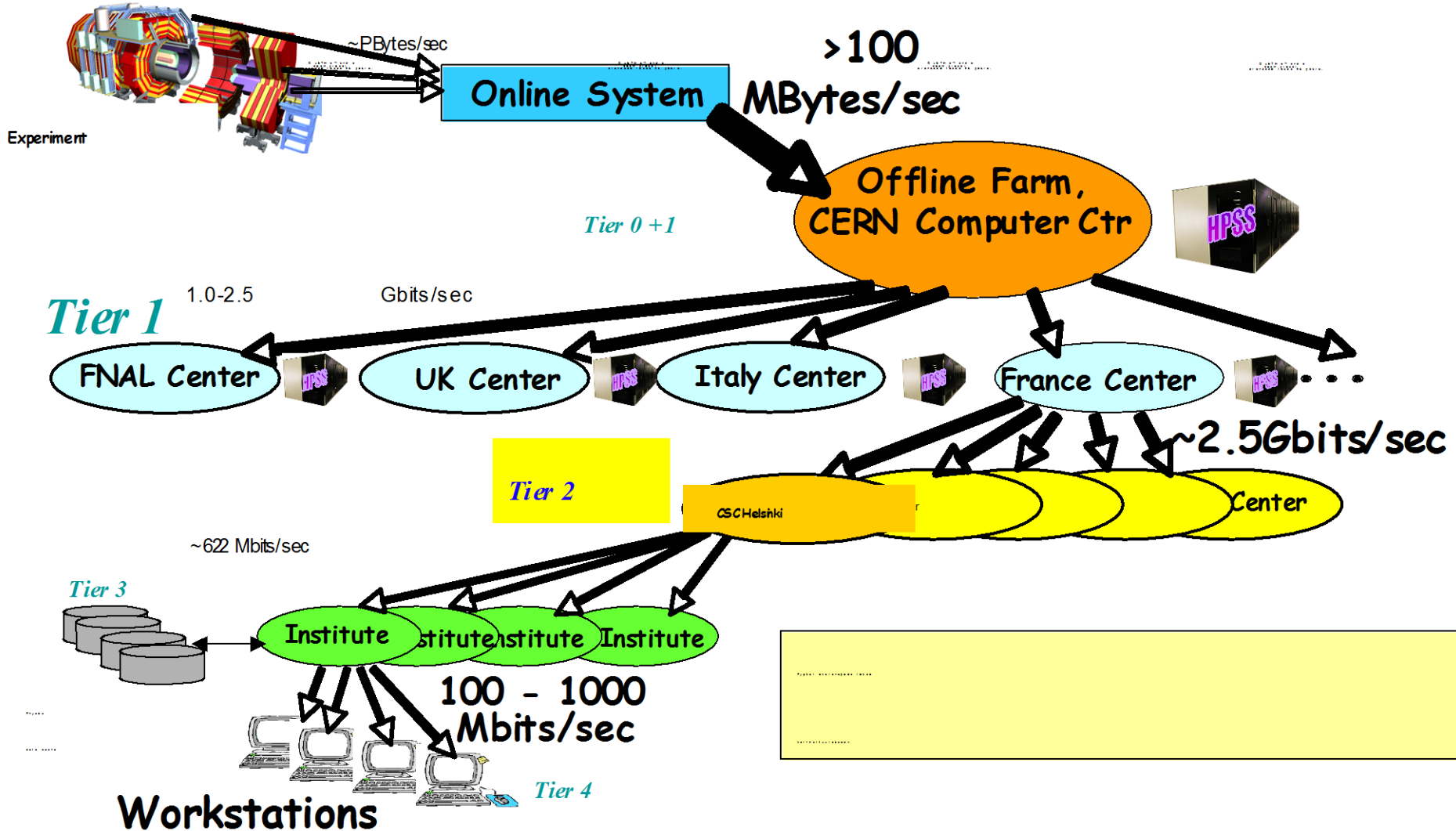
ATLAS Cavern

Building CMS





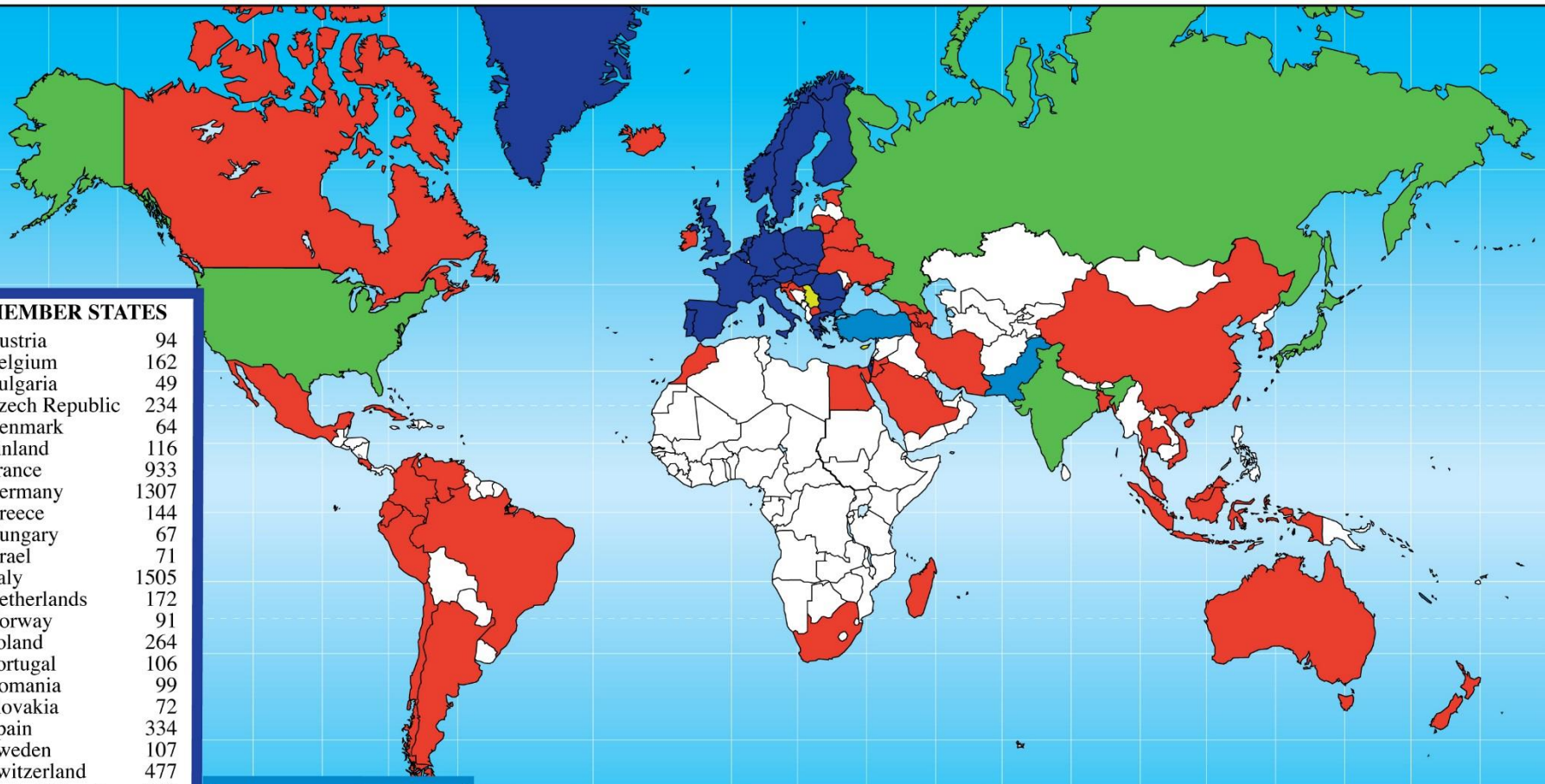
Data Grid







Distribution of All CERN Users by Location of Institute on 12 January 2016



MEMBER STATES

Austria	94
Belgium	162
Bulgaria	49
Czech Republic	234
Denmark	64
Finland	116
France	933
Germany	1307
Greece	144
Hungary	67
Israel	71
Italy	1505
Netherlands	172
Norway	91
Poland	264
Portugal	106
Romania	99
Slovakia	72
Spain	334
Sweden	107
Switzerland	477
United Kingdom	910

7378

ASSOCIATE MEMBERS

Pakistan	36
Turkey	126

162

OBSERVERS

India	187
Japan	279
Russia	980
USA	1915

3361

STATES IN ACCESSION TO MEMBERSHIP

Cyprus	11
Serbia	37

48

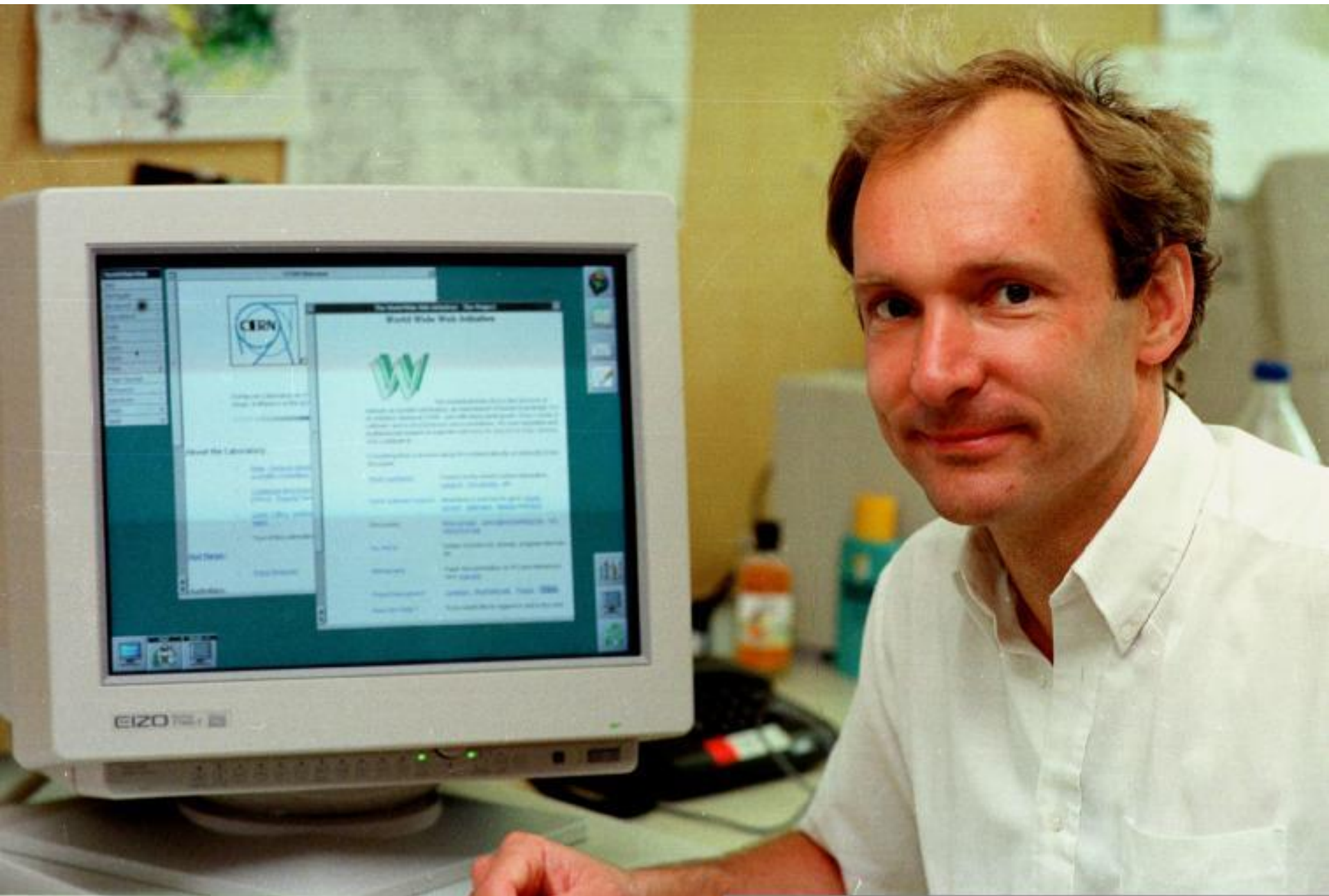
OTHERS

Argentina	29	China	208	Iceland	2	Mexico	64	TFYROM	2
Armenia	18	Colombia	12	Indonesia	9	Morocco	7	Ukraine	30
Australia	40	Costa Rica	1	Iran	25	New Zealand	6	Venezuela	1
Azerbaijan	4	Croatia	25	Ireland	9	Peru	3	Viet Nam	1
Belarus	2	Cuba	3	Jordan	2	Saudi Arabia	1		
Brazil	151	Ecuador	2	Korea	145	Singapore	1		
Canada	174	Egypt	26	Lithuania	15	Slovenia	20		
Chile	15	Estonia	17	Madagascar	3	South Africa	47		
		Georgia	23	Malaysia	12	Taiwan	78		
		Hong Kong	22	Malta	5	Thailand	13		

1299







FUTURE

CLIC – Compact Linear Collider Unprecedented energies beyond LHC for electrons and their antimatter twins, positrons in 50 kilometer long accelerator complex

FCC – Future Circular Collider

An international collaboration to explore concepts for the most powerful particle collider in 100 kilometer long accelerator tunnel

The High-Luminosity LHC

HL-LHC project aims to increase the potential discoveries after 2025 by increasing the LHC luminosity (the number of collisions occurring in a given amount of time...)

Key Ingredients to CERN's success

- Facility was a priority of the science community
- Strong funding commitments and host role (CH+FR)
- Organisation populated with critical experience
- Realistic goals
- Experience over 'hope'
- Openness and transparency
- Collective ownership of problems and solutions
- Success requires energy and enthusiasm