



CERN

Introduction Welcome

Kunstakademie Karlsruhe May 2024



michael.hoch@cern.ch



Conseil Européen pour la Recherche Nucléaire

International Collaboration

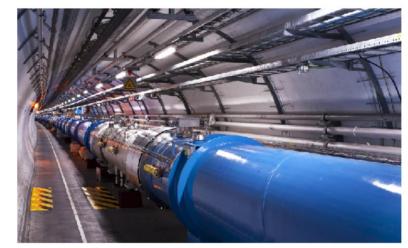
Education

Fundamental Research

New Technology











History

1949

First steps towards civilian research in the field of nuclear technology

1952

Foundation of CERN under the auspices of UNESCO in Geneva

1953

Signing of the CERN charta

1954

Completion of the ratification process of the 12 Member States

La sixième session du Conseil fut organisée à Paris du 29 juin au 1er juillet 1953. C'est à cette occasion que la Convention établissant l'Organisation fut signée, sous réserve de ratification, par douze Etats membres. For the Corman Federal Samubite Pour la République Fatérale For the Kingdom of Norma tur le Roveime de Korvére d'& llems me I cator 2. Unater subject to setification Singles of the Satherland Pour 1. Royaume For the Hingdom of Belgium Pour la Royagne de Belgique For the United Kingdom of Great Britain le Roveume-Ont de la For the Hingdon of than and Northern Ireland ande-Bretarne et de Inclande du Nor-Corerun sous reserve de lavelies din 2512.53 For the French Republic For the Hingdom of Sweden Pour le Royaume de Sudde Joar Walles 1/ Alunt Torsten Sust For the Kingdom of Green Pour la Royaume de Cràs Confédération Suiss Jali réserve de relification For Italy For the Federal Respirate Republic of Tugoslavia Four la République Fédérativ Populaire de Yougoslavie Parle Janic im viere de

The Sixth Session of the CERN Council took place in Paris on 29 June-1 July 1953. It was here that the Convention establishing the Organization was signed, subject to ratification, by twelve States.

Jr.





CERN Today

23 Member States 11 Associate Member States

Annual budget 1.2 billion CHF 1.2 billion EUR 1.3 billion USD

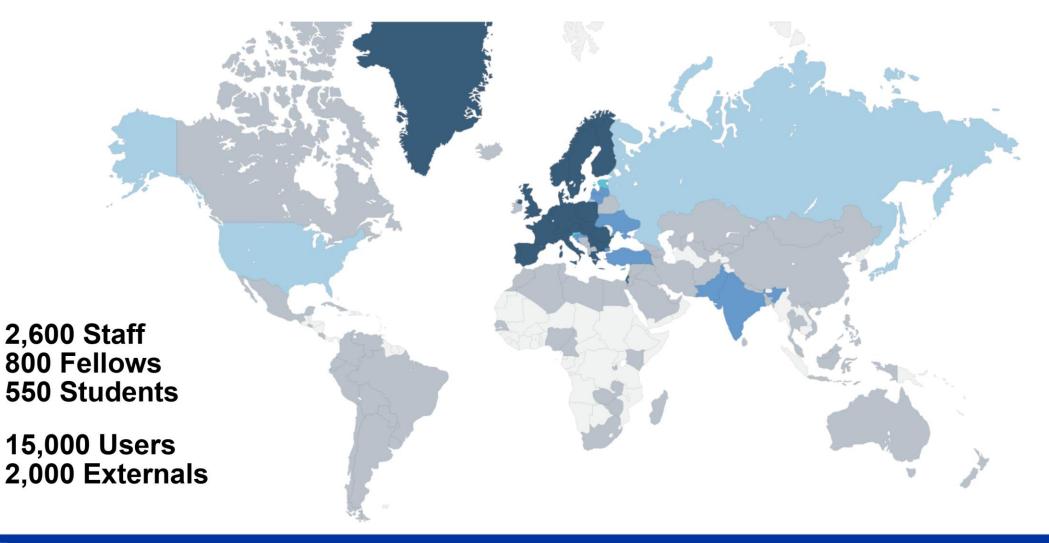
Z= - + FAN FAN

+ i I Dy th

+ X: Yax Sothe

 $+|\mathbf{D}_{\mathbf{A}}\mathbf{g}|^{2}-\mathbf{V}(\mathbf{\phi})$

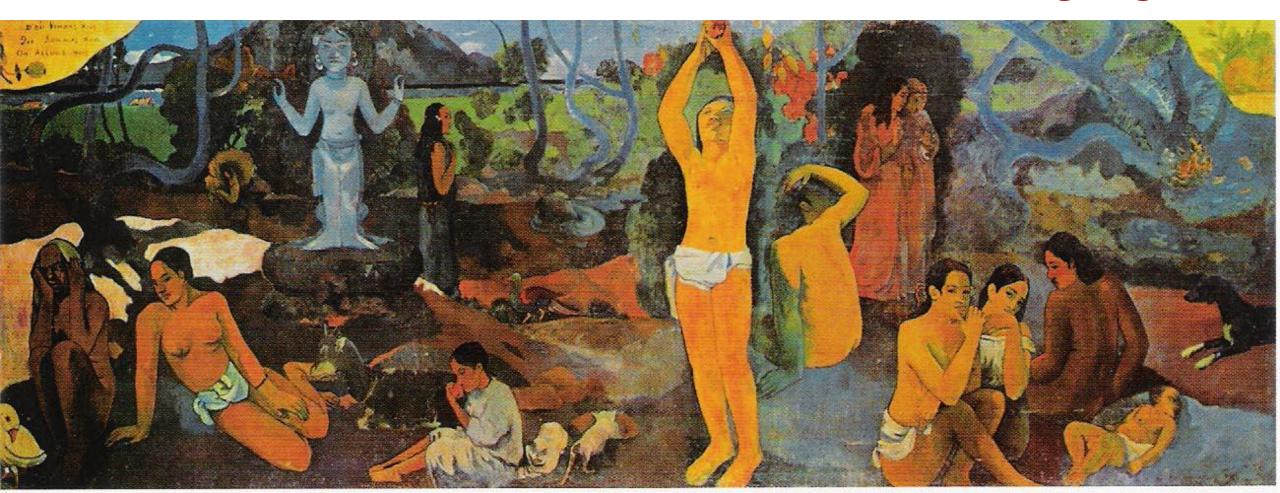
More than 20,000 scientists from around the world





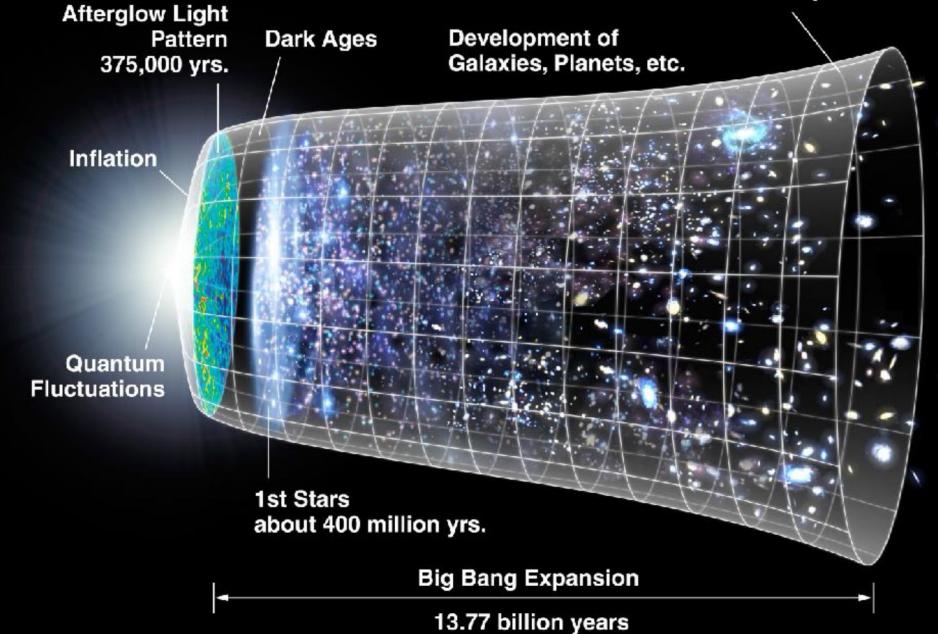
Fundamental Questions of mankind

Paul Gauguin 1897: Where did we come from? Who are we? Where are we going?



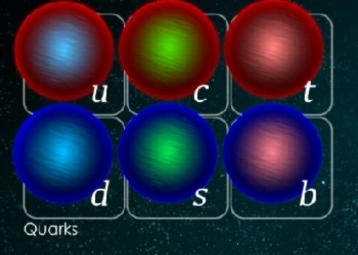
Dark Energy Accelerated Expansion

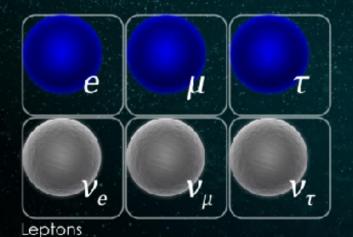
WHERE do we come FROM

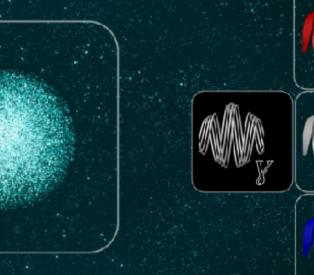


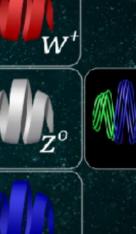
WHAT are we MADE OFF

Higgs boson













g

WHERE are we GOING

