

CERN – a short and sweet introduction

Dr **Jeff Wiener** 1 July 2024

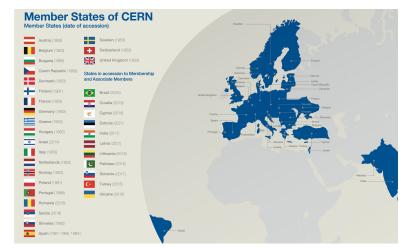
Conseil Européen pour la Recherche Nucléaire

International Collaboration

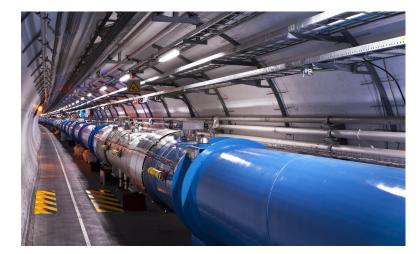
Education

Fundamental Research

New Technology











History

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.

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**

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For the Federal People's Republic Pour la République Fédérative of Turos lavis Parle Jane Nono réserve de rahification

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.



Member States of CERN

Member States (date of accession)



CÉRN



CERN Today

23 Member States11 AssociateMember States

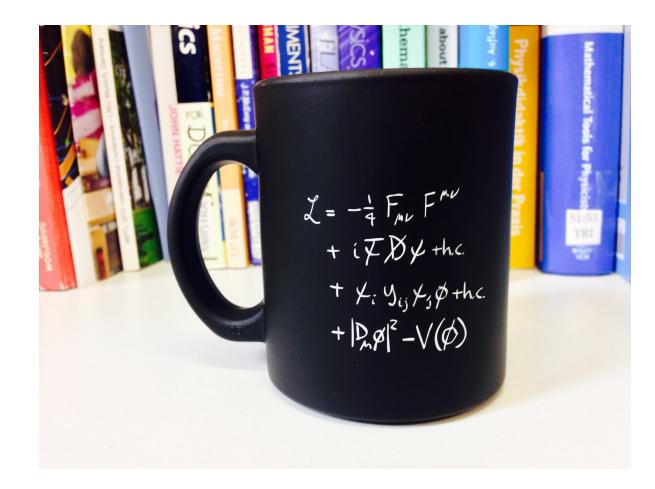
Annual budget 1.2 billion CHF 1.2 billion EUR 1.3 billion USD

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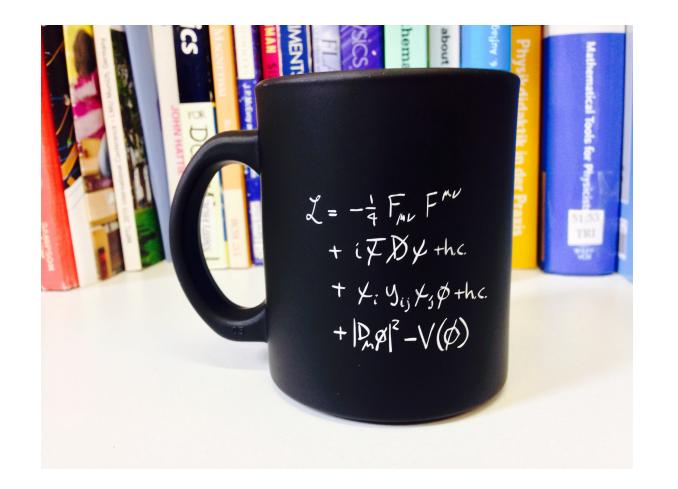
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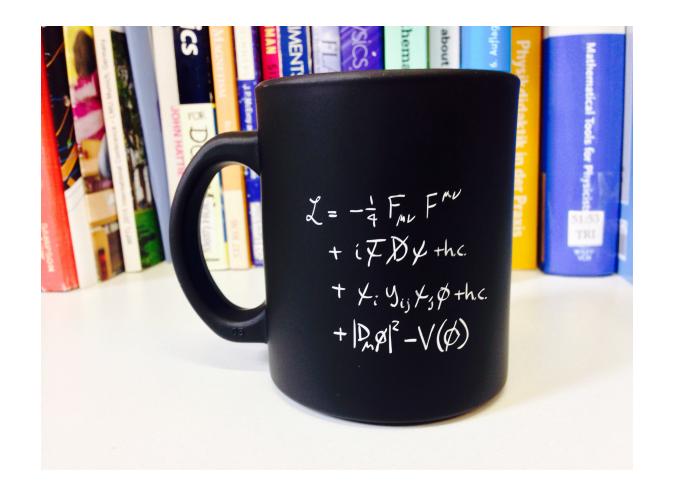






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<text><text><text><text></text></text></text></text>		The Standard Model of particle physics is one of the most successful theories in physics describes the fundamental interactions between elementary particles. It is encoded in a compact description, the so-called 'Lagrangian', which even fits on t-based coffee mugs. This mathematical formulation, Therefore, to support high element in the total structure of interaction.
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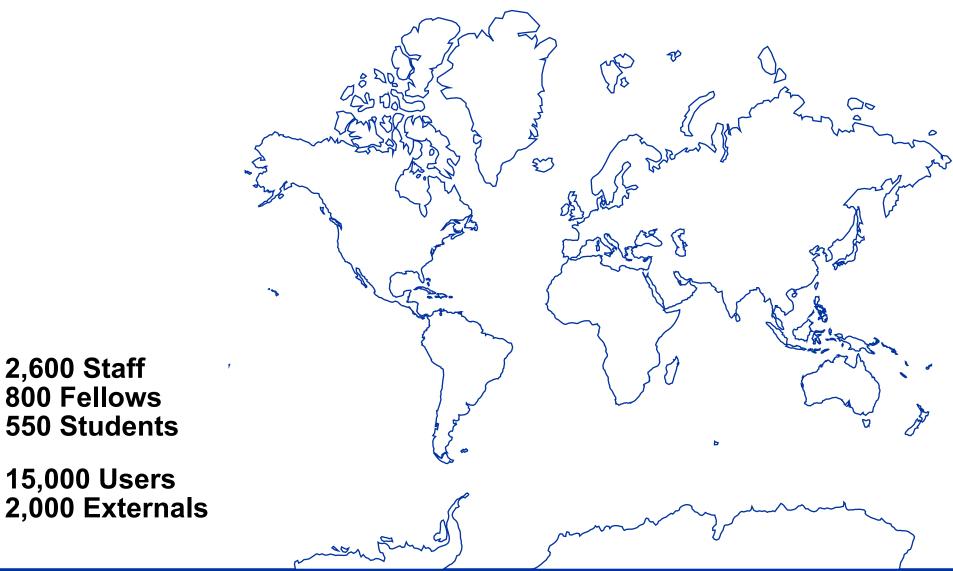




Let's have a coffee with the Standard Model of particle physics!
Julia Woithe ^{1,2} , Gerfried J Wiener ^{1,3} and Frederik F Van der Veken ¹ ¹ CERN, European Organization for Nuclear Research, Geneva, Switzerland ² Department of Physics/Physics Education Group. University of Keiserland ³ Austrian Educational Compension-Force Physics Physics Physics ⁴ Austrian Physics Physics Physics Physics ⁴ Austrian Physics Physics Physics Physics ⁴ Austrian Physics Physics Physics Physics Physics ⁴ Austrian Physics Physics Physics Physics
E-mail: julia.woithe@cem.ch. jeff.wiener@cem.ch and frederit.woithe@cem.ch. jeff.wiener@cem.ch and frederit.woith@cem.ch. jeff.wiener@cem.ch and frederit.woith@cem.ch. jeff.wiener@cem.ch. and frederit.woith@cem.ch. jeff.wiener@cem.ch. and frederit.woith@cem.ch. jeff.wiener@cem.ch. and frederit.woith@cem.ch. jeff.wiener@cem.ch. and frederit.woith@cem.ch. and frederit.woi
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More than 20,000 scientists from around the world



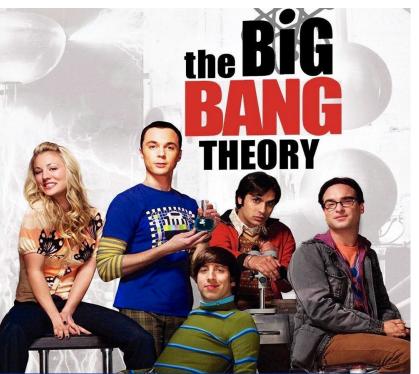


2,600 Staff

800 Fellows

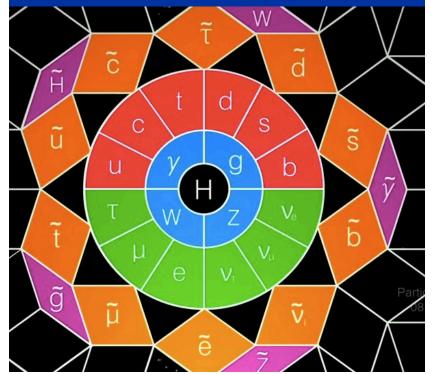
15,000 Users

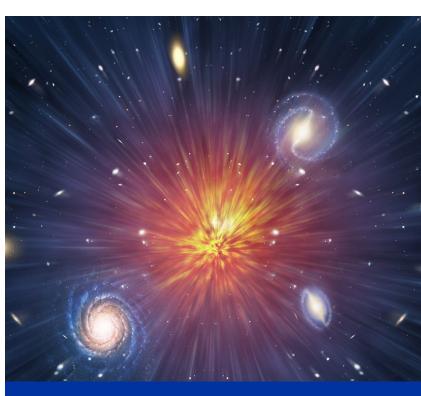
Fundamental questions of humankind



Where do we come from?



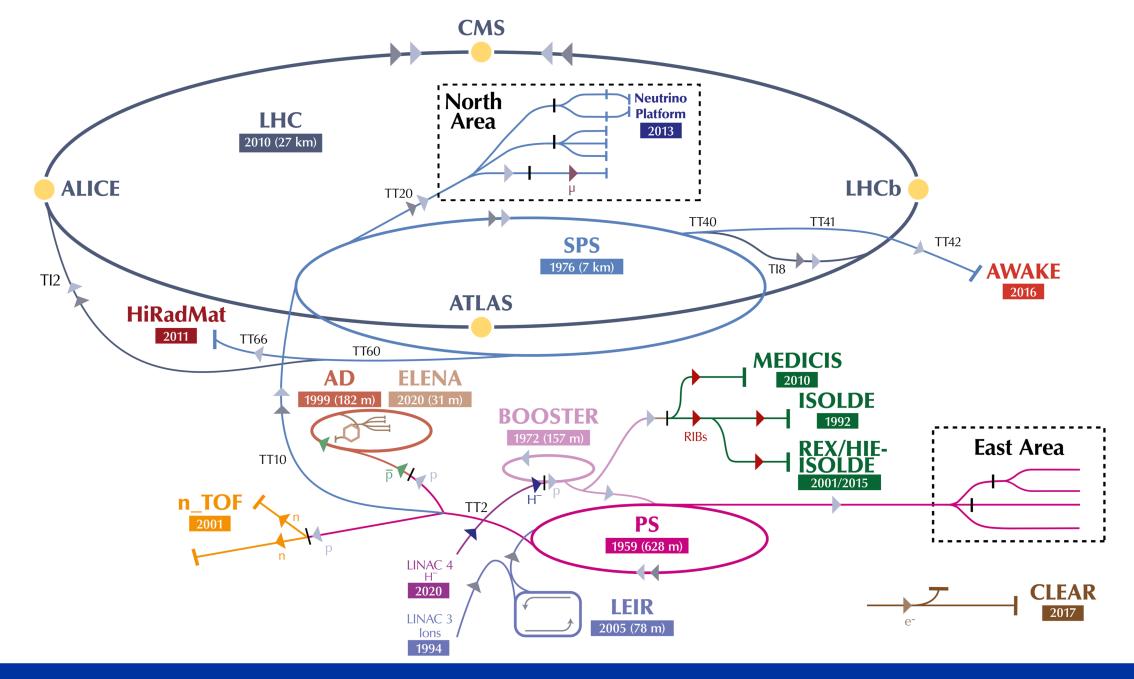




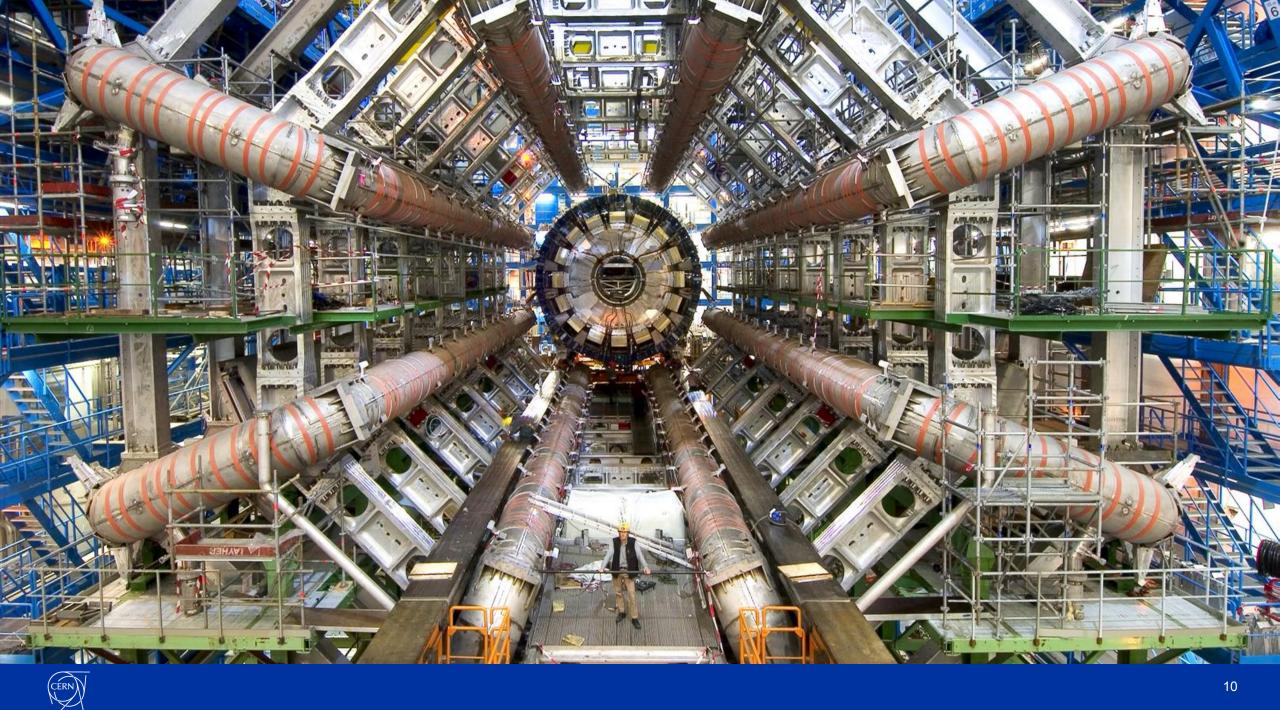
Where are we going?

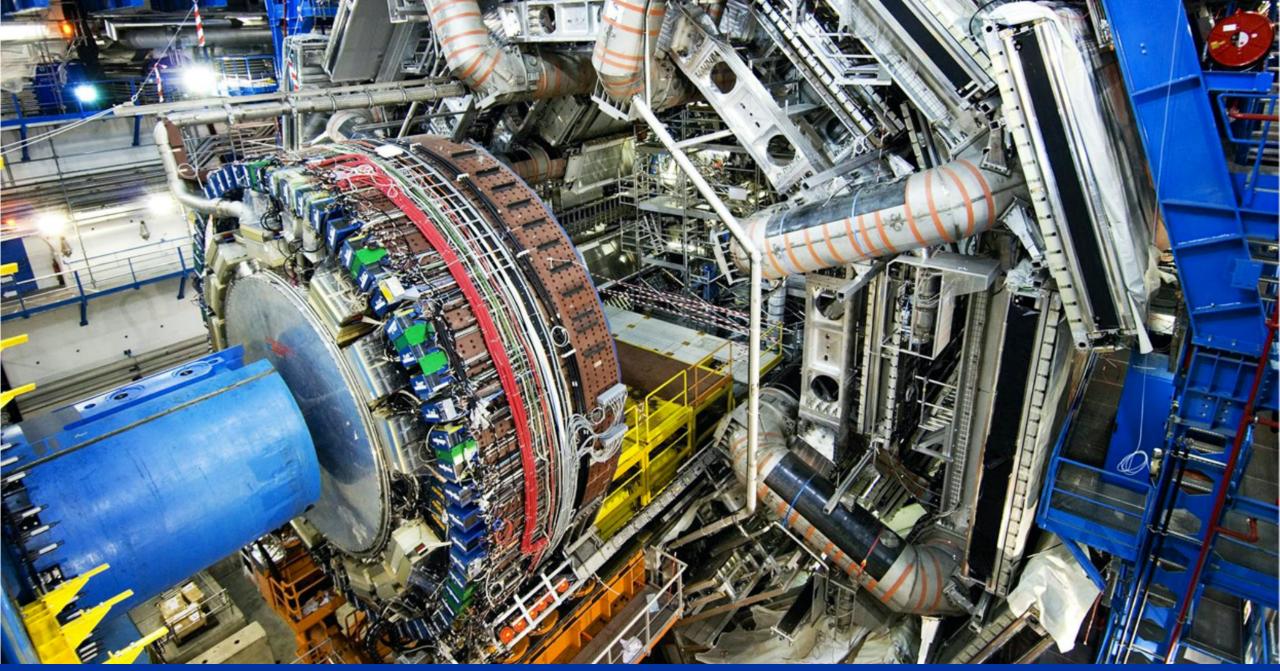




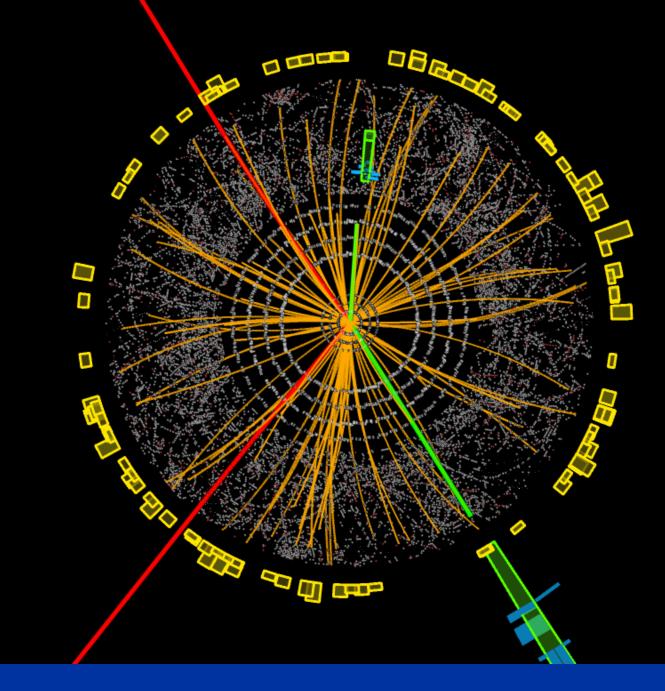
















Knowledge Transfer

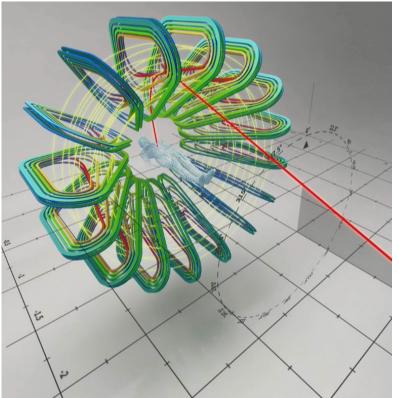
WWW

Touchscreens

Medical applications









What's next?















We need the next generation of scientists and engineers!



Merci bien!

Questions?

cern.ch/jeff.wiener

