

CERN – a short and sweet introduction

Dr **Jeff Wiener** 16 November 2023

Conseil Européen pour la Recherche Nucléaire

International Collaboration

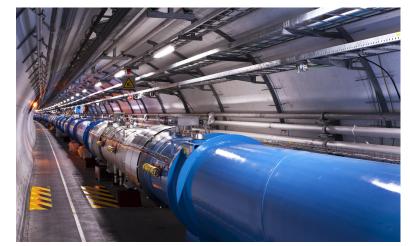
Education

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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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





CERN Today

23 Member States10 AssociateMember States

Annual budget 1.2 billion CHF 1.2 billion EUR 1.3 billion USD

Pakistan

India

E A

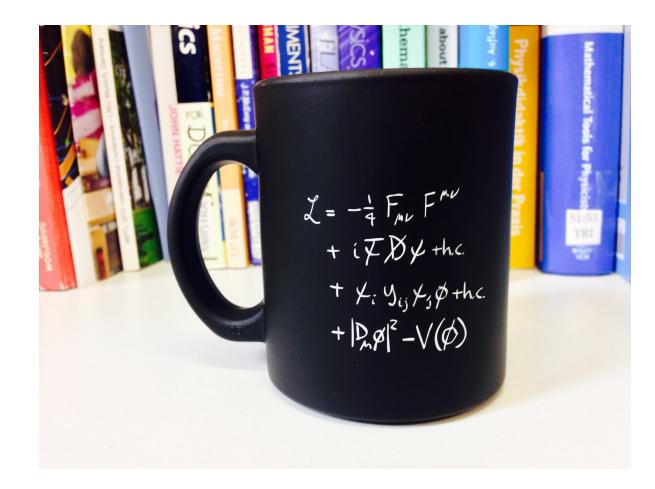
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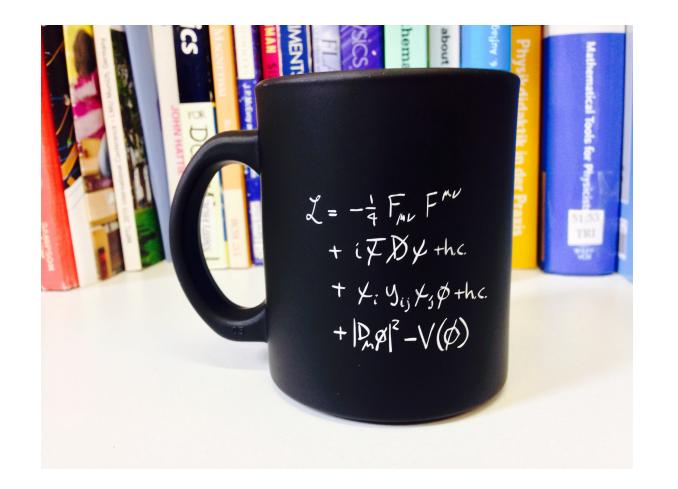
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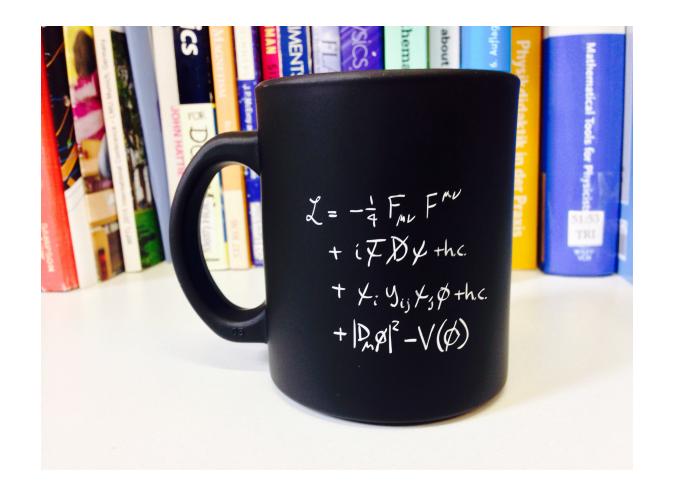






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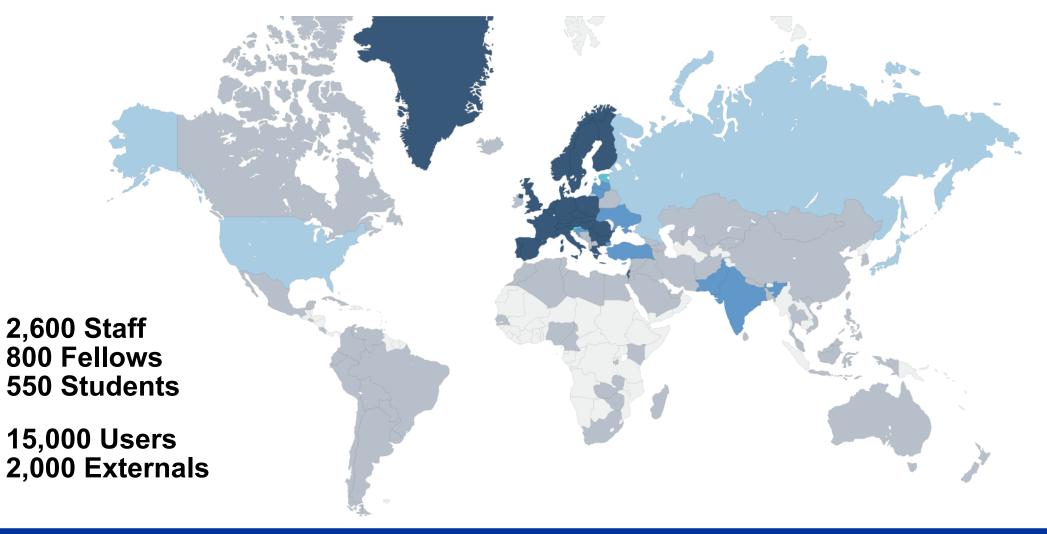




Let's have a coffee with the Standard Model of particle physics!
Julia Woithe ^{1,2} , Gerfried J Wiener ^{1,3} and Frederik F Van der Veken ¹ ¹ CERN, European Organization for Nuclear Research, Geneva, Switzerland ² Department of Physics/Physics Education Group. University of Keiserland ³ Austrian Educational 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
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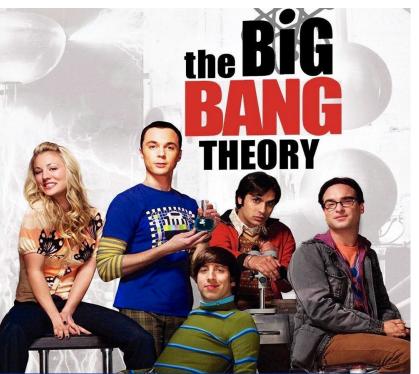


More than 20,000 scientists from around the world



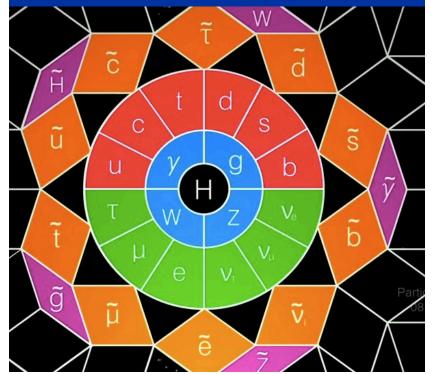


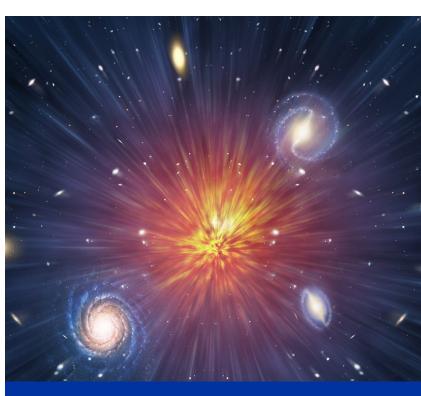
Fundamental questions of humankind



Where do we come from?



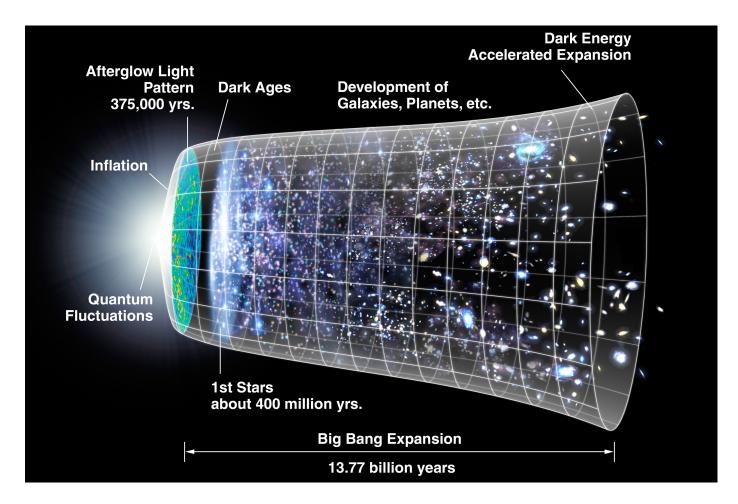




Where are we going?

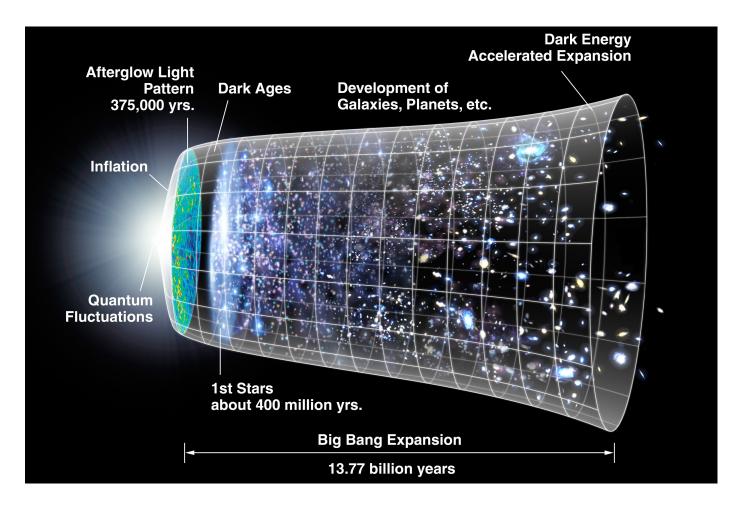


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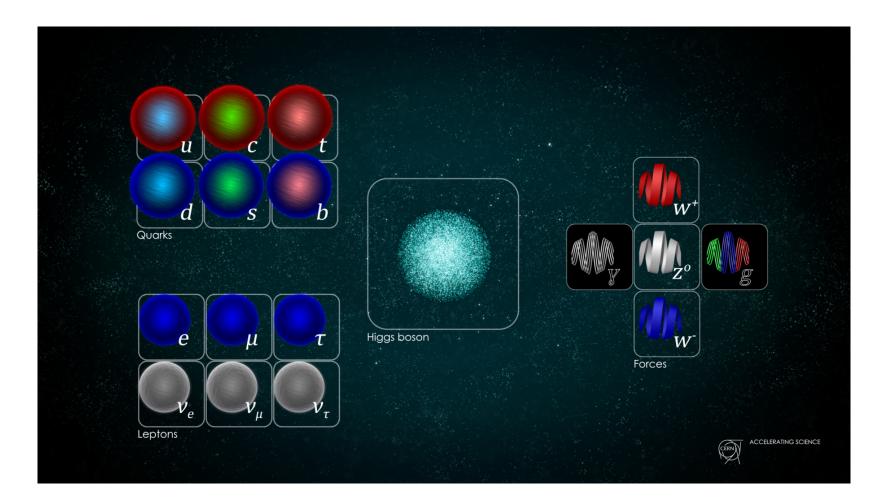
Where do we come from?







What are we made of?





Where are we going?





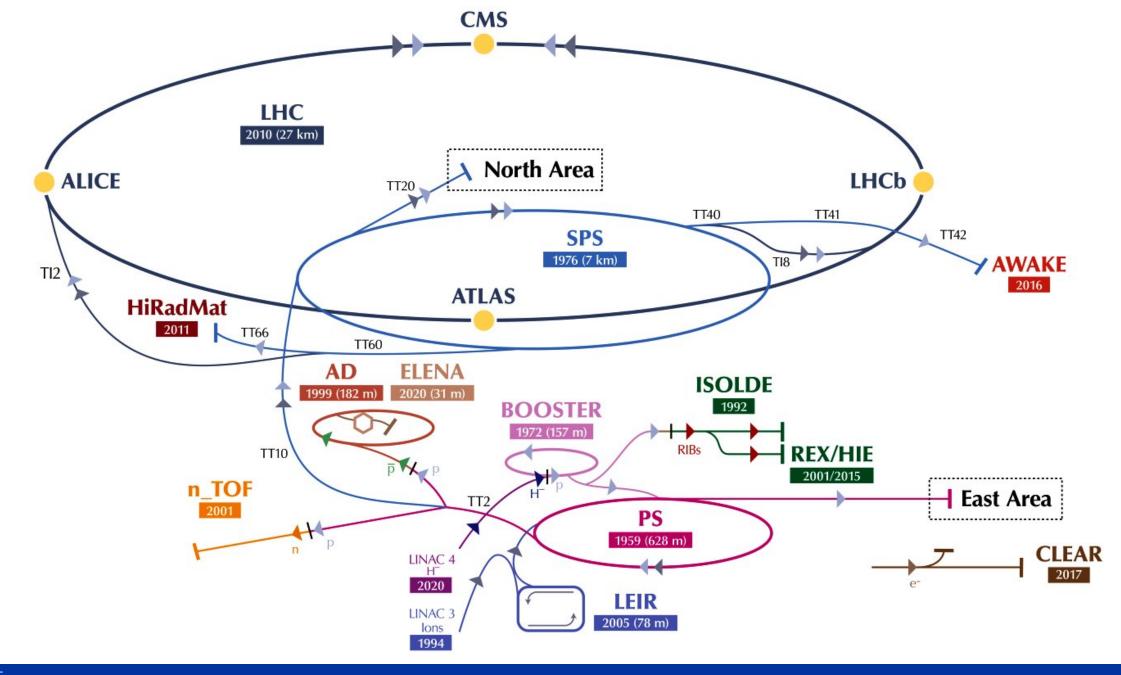
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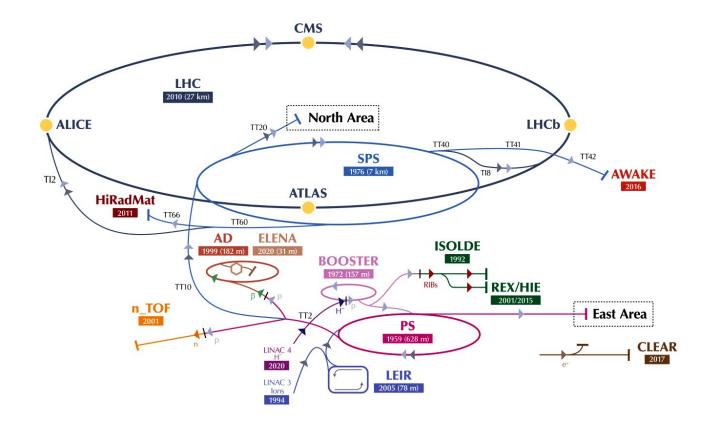




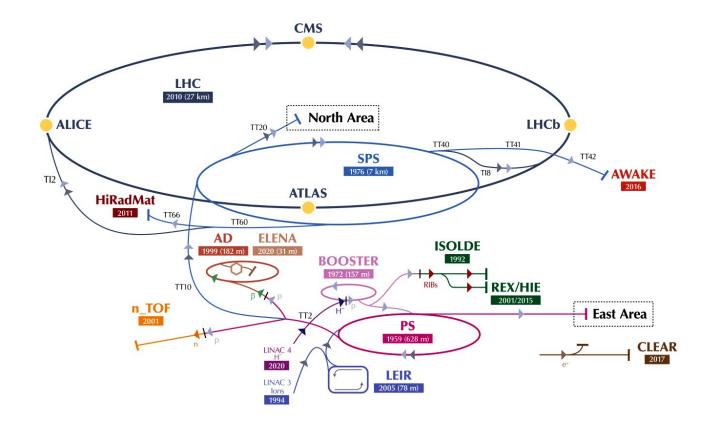






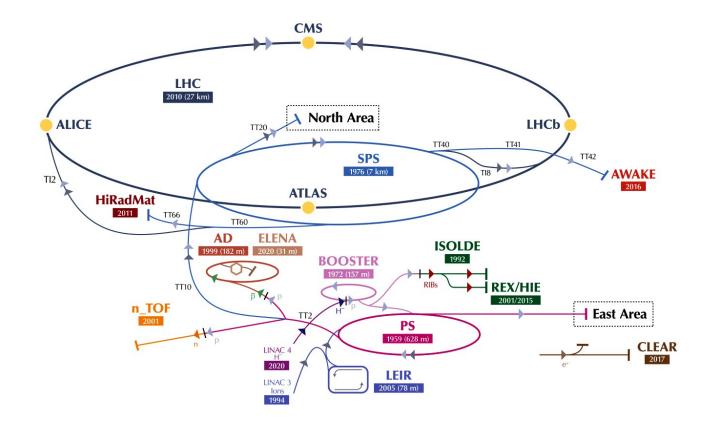






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Abstract	
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this paper provides an overview of the LI existing education resources, and linking topics in physics curricula.	principal components a full fighting
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Introduction	
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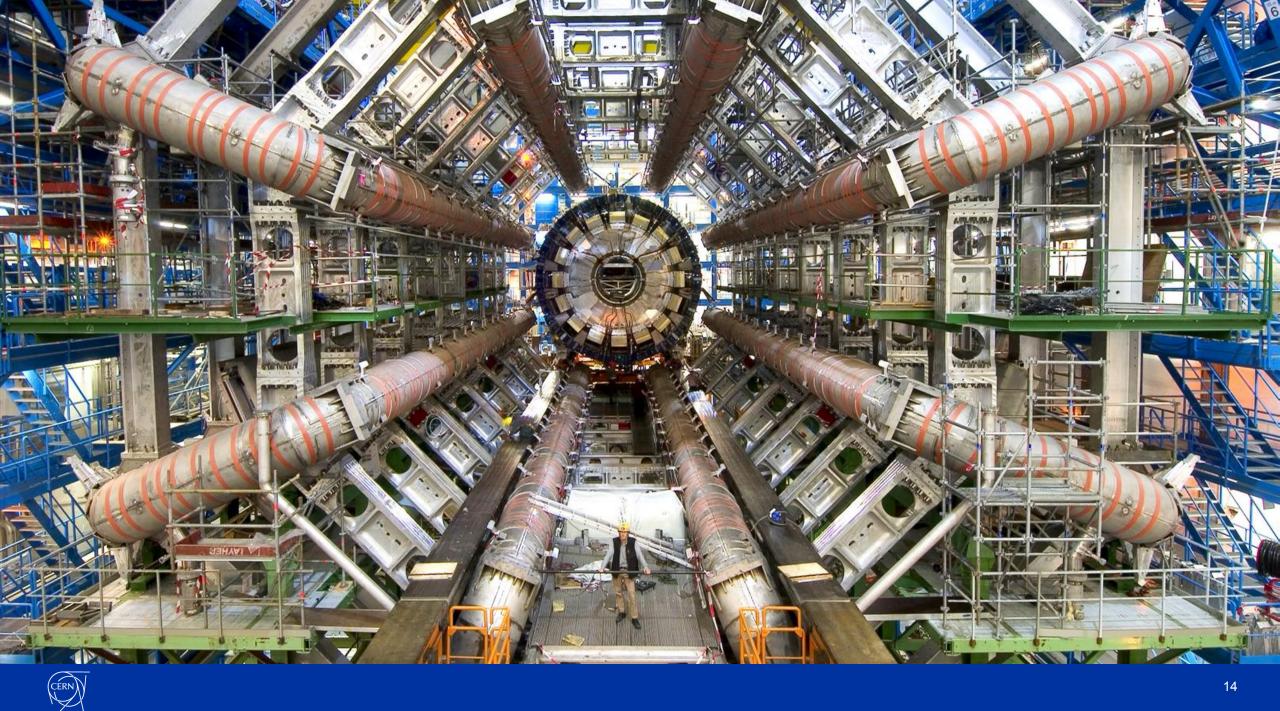


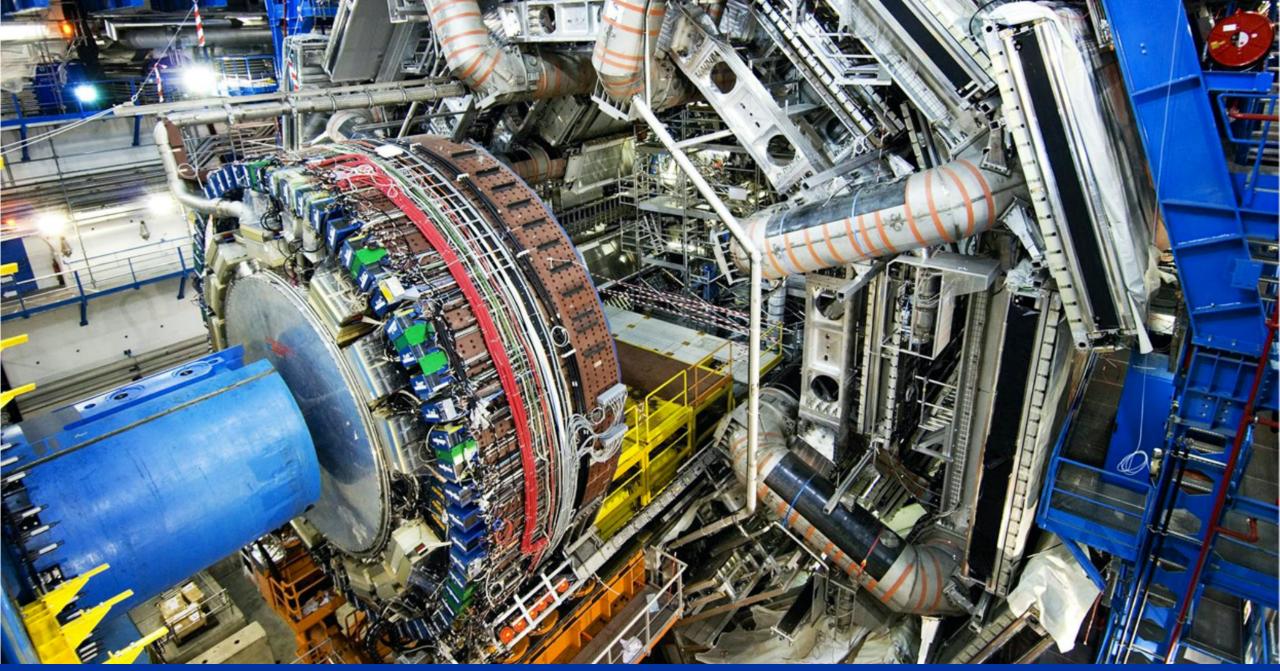


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E-mail: gerfried.wiener@cern.ch, julia.woit and konrad.jende@cern.ch	he@cern.ch, alexander brown
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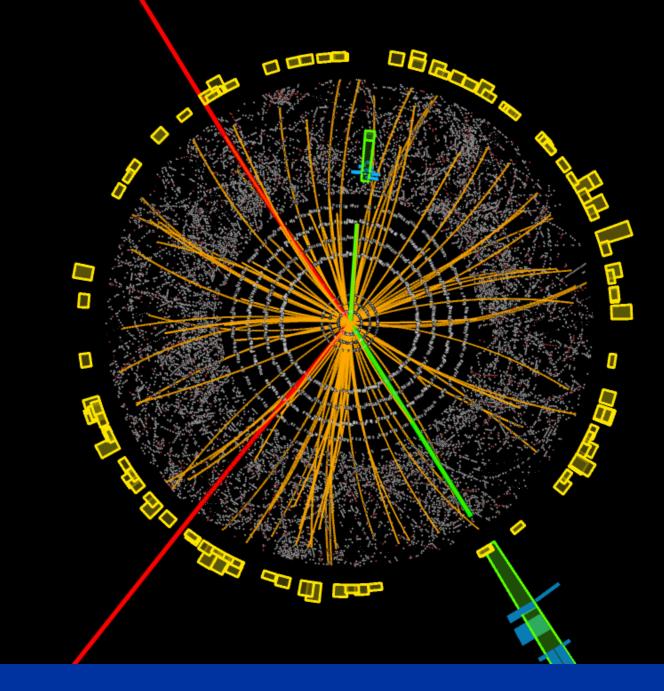
















Knowledge Transfer

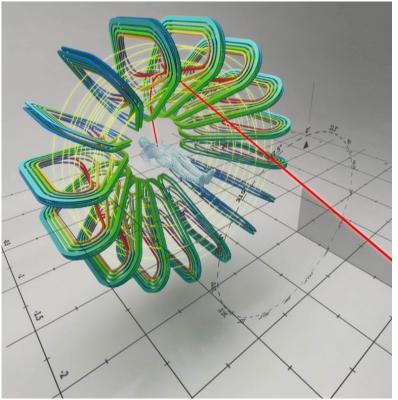
WWW

Touchscreens

Medical applications



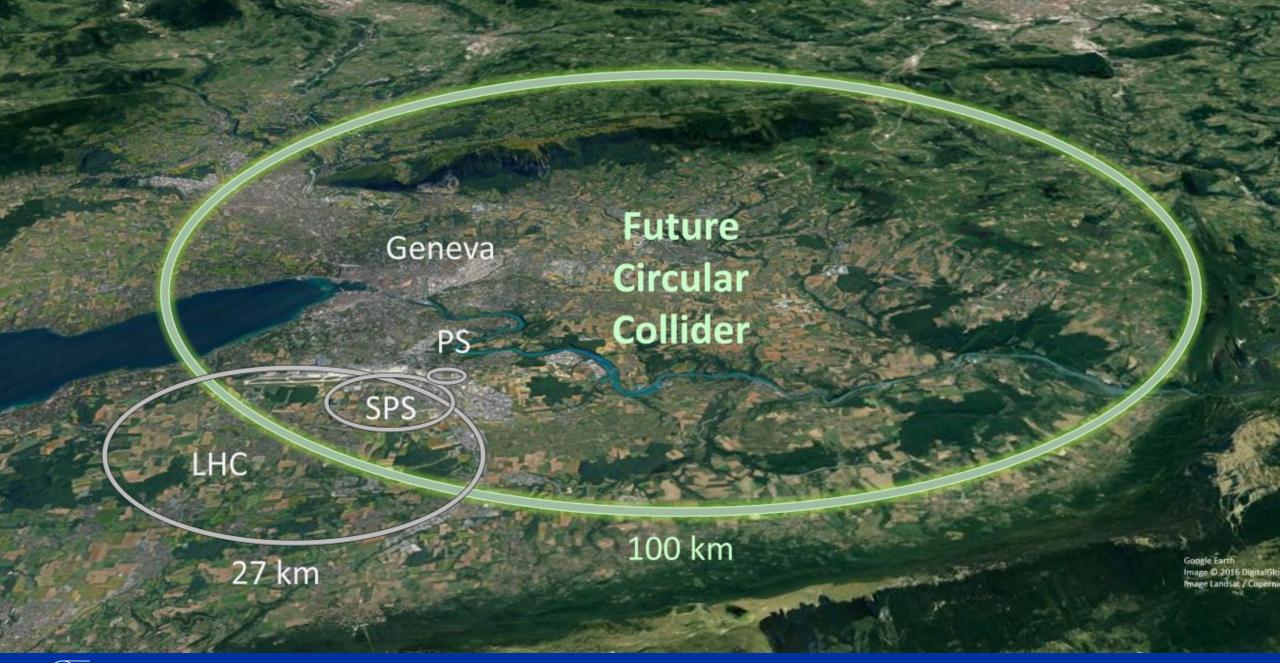






What's next?













We need the next generation of scientists and engineers!



Merci bien!

Questions?

cern.ch/jeff.wiener

