

CERN – a short and sweet introduction

Jeff Wiener 1 August 2022 ITW2022

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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our le Royaume de Norvège

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Pour le Royaume de Sudde

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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

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	Standard Model of particle
	Julia Woithe ^{1,2} , Gerfried J Wiener ^{1,3} and Frederik F Van der Veken
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	E-mail: jolia.woithe@cem.ch. jeff.wiener@cem.ch and frederik.van der.veken@cem.ch Abstract
	1. Introduction
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	Let's have a coffee with the Standard Model of particle
	Julia Woithe ¹ -2, Gerfried J Wiener ¹ /s and Frederik F Van der Veken ¹ ¹ CERN, European Organization for Nuclear Research, Geneva, Switzerland ¹ Departmene of Physic-offWysics Education Group. University of Kanesslautern, Gormany ² Asarian Educational Competence Cance Physics, University of Vienna Austria E-mail: julia woithe@cem.ch.jeff.wiene@cem.ch.and Itederik.vander.veken@cem.ch E-mail: julia woithe@cem.ch.jeff.wiene@cem.ch.and Itederik.vander.veken@cem.ch The Standard Model of particle physics is one of the most successful theories particles. It is encoded in a compact description, the so-called 1_degrangian's however, is onrights and only rarely makes it in the physics is formulation Therefore, is onrights and only rarely makes it in the physics disastronum Therefore the terms of the law classroom, we provide divedvard explanation the terms of the law classroom, we provide divedvard
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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?





















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

