

The background of the poster features a large, circular, multi-layered structure resembling a particle detector or accelerator component, with a warm orange and red glow. Overlaid on this are numerous semi-transparent circles in shades of purple, pink, and orange, connected by thin lines, suggesting a network or data flow. At the bottom, there is a stylized bar chart with vertical bars of varying heights, colored in a gradient from purple to orange.

[ichep2020.org](http://ichep2020.org)

# ICHEP 2020 | PRAGUE

40<sup>th</sup> INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

30 JULY - 5 AUGUST PRAGUE, CZECH REPUBLIC

# WELCOME WORD

It is a great honour to announce that the 40<sup>th</sup> International Conference on High Energy Physics will take place in Prague, Czech Republic, from 30 July to 5 August 2020.

Information exchange, communication and networking have always been vital for science. It was in 1950 in Rochester, U.S.A. when the first conference of this series took place. Throughout its 70-year long history, it has become undoubtedly the most prominent gathering of particle physicists in the world with more than a thousand participants from different countries around the globe. Even in the present boom of electronic communication, scientific face-to-face meetings keep their irreplaceable role, and it is namely this conference where key results and breakthroughs have always been announced including the discovery of the Higgs boson in 2012.

The conference program covers recent results and hot topics of particle and astroparticle physics. Sessions and talks on supporting technologies and industrial connections are scheduled in addition to physics results. In recent years, the topics have also included discussions of diversity, inclusion, outreach and the sociology of large scientific collaborations. The program consists of parallel and plenary sessions as well as two poster sessions.

The organising Czech academic institutions together with the International Advisory Committee and a conference agency C-IN, will do their best to prepare an attractive scientific programme complemented by relaxing social events.



**ZDENĚK DOLEŽAL**  
Chair of ICHEP 2020

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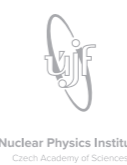
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Charles University, V Holešovičkách 2  
Prague 8, Czech Republic



## ICHEP 2020 IN A NUTSHELL

Dates: from **Thu 30 July 2020** to **Wed 5 August 2020**

Expected number of participants: **1 200**

The official website [ichep2020.org](http://ichep2020.org) is being regularly updated and contains all the important information.

### SPECIALISATIONS INVOLVED

Experimental particle physics

Astroparticle physics

Theory and phenomenology

Computing and data handling

Detection methods

Electronics



# THE VENUE PRAGUE CONGRESS CENTRE

The Prague Congress Centre ranks among Europe's best known congress venues with 13 000 m<sup>2</sup> of exhibition space, more than 50 halls, reception and meeting rooms (with an overall capacity of up to 9 300 people), and a beautiful panoramic view over the city. It is located conveniently next to the Metro station (Vyšehrad – Line C) and the hotels Holiday Inn Prague Congress Centre and Corinthia Prague. The city centre is only two stops away.



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# SCIENTIFIC TOPICS

Higgs Physics

Strong Interaction and Hadron Physics

Top Quark and Electroweak Physics

Quark and Lepton Flavour Physics

Heavy Ions

Neutrino Physics

Dark Matter Detection

Astroparticle Physics and Cosmology

Detector R&D

Computing and Data Handling

Outreach and Communication

Industry Connections

Diversity and Inclusion

# SCIENTIFIC PROGRAM AT GLANCE

function	thu 30 july	fri 31 july	sat 1 august	sun 2 august	mon 3 august	tue 4 august	wed 5 august
<b>sessions</b>	parallel sessions	parallel sessions	parallel sessions	satellite meetings committees	plenary sessions	plenary sessions	plenary sessions
<b>social event</b>	welcome reception & poster session	poster session	none	none	public lecture	conference dinner Zofin	none

## CONTACT

Official website: [ic hep2020.org](http://ic hep2020.org)

Conference secretariat: [info@ic hep2020.org](mailto:info@ic hep2020.org)

Professional Conference Organiser



/ Prague Congress Centre  
5. května 65, 140 21 Prague 4 Czech Republic

/ [www.c-in.eu](http://www.c-in.eu)



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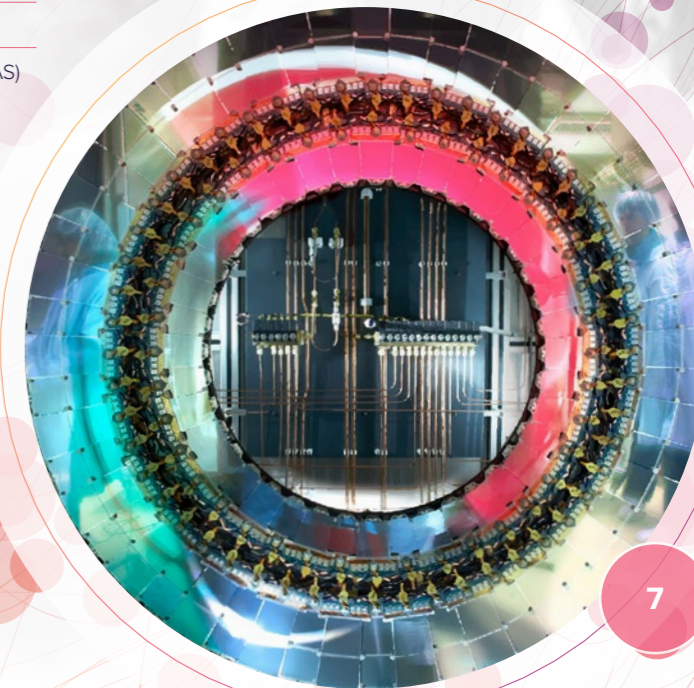
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# RESPONSIBILITY AND PUBLIC IMPACT

High energy physics, similarly to other basic scientific disciplines tries to find answers to the fundamental questions about the origin and working principles of our world. Some compare its experimental facilities to cathedrals built in the Middle Ages. They have something in common, being the largest objects created by humankind and requiring tremendous human, technical and financial resources.

Can these expenses be justified? There are many examples of innovative applications resulting from the curiosity-driven research in our field. On top of the technology spinoffs, we believe there are also social benefits arising from the international scientific cooperation typical for particle physics. Large scientific laboratories such as CERN as well as large experimental collaborations have served as models for other international organisations. The contribution of science to peace among nations has been acknowledged many times. However, cooperation was not always smooth. It was around the time of the first Rochester conference when the Iron curtain and the Cold war isolated half of Europe including Prague and almost halted scientific cooperation for the next forty years. This divide is over but we should keep reminding ourselves of it as new walls and wars emerge.

An essential complement of the research activities is outreach and communication of scientific results. Talking to the public will be an organic part of our conference program as well, from extensive social and classical media coverage to programs for teachers, a public lecture and exhibition, and other activities.

We will have programs to foster inclusion of less-favoured and underrepresented communities, including participants with disabilities, students, families, and those from economically disadvantaged regions. We are preparing a support scheme for students and postdocs unable to raise funds to attend (to include a conference fee waiver program, and travel and lodging assistance). For this, we are actively seeking support from institutions and the private sector. Plenary sessions will be webcast for those who cannot come in person.

Last but not least, the organisers are attentive to the principles of sustainability - we are incorporating goals such as minimising the amount of printed material handed to the participants and avoiding excessive use of plastic objects into our planning from the beginning.

