



# European Strategy Update

## **Powering tomorrow's discoveries: INFN Trieste in the European Strategy**



Mirco Dorigo – November 20th

# European Strategy Update 2024–2026

- **European Strategy for Particle Physics**, a framework coordinated by CERN Council to set the priorities and future directions for particle physics research in Europe.
- Initiated in 2025. Carried out every 7-8 years, now in its third update started in March 2024.

<https://europeanstrategyupdate.web.cern.ch/welcome>



The screenshot shows the top navigation bar of the website. On the left is the logo for the European Particle Physics Strategy Update 2024–2026. To its right is the text "European Particle Physics Strategy Update 2024 – 2026". The navigation menu includes "HOME" (underlined), "ABOUT", "PROCESS" (with a dropdown arrow), "SUBMITTED INPUT", "ORGANISATION" (with a dropdown arrow), and "RESOURCES" (with a dropdown arrow). Below the navigation bar, the heading "Welcome" is displayed in a large, bold font. Underneath the heading is a paragraph of introductory text: "The European Strategy for Particle Physics is the cornerstone of Europe's strategy-setting process for the long-term future of the field. Mandated by the CERN Council, the Strategy takes into account results from the LHC and other facilities in the world, the international physics landscape and developments in related fields with the aim to maximise scientific returns."

# Main input steps

- The European Strategy Group (ESG) **calls upon the particle-physics community across universities, laboratories and national institutes to provide input to the process** in various forms and at various stages.
- An **Open Symposium**, at which the community will be invited to debate scientific input into the Strategy update, will take place on **23 - 27 June 2025 in Venice**.
- A "**Briefing Book**" based on the input and discussions will be prepared by the [Physics Preparatory Group](#) and submitted to the [European Strategy Group](#) for consideration in late 2025.

# Timeline



We are here!

# Inputs: how?

Two main ways to submit contributions

- As member of the communities working **on specific projects** (eg. FCC, Muon Collider, etc) – even as single contributors. Deadline 31 March.
- As **National communities (eg. INFN)**. Can give organised global inputs till before the Open Symposium (May 2025). Further additions can be made after the Briefing Book drafting (November 2025).

# INFN coordination

- Appointed: **Working Group** (CSN Presidents, National Labs Directors, MAC and Computing representatives) and a **Steering Group** (Ciuchini, Malvezi, Nisati, Tenchini, Borca).
- **Local discussions (here we are!)** to be summarised by coordinators to the Working Group (CSN Presidents), which will draft a document for the Steering Group. Different dedicated document for MAC and Computing.
- Open general discussions (e.g. workshops last May in Rome; November and January in LNF, ...)
- Submit the documents by March 31st 2025.

# Today agenda (1)

14:10 → 14:30 **Landscape: physics opportunities ahead**

Speaker: David Marzocca (Istituto Nazionale di Fisica Nucleare)

Pheno overview

🕒 20m



14:35 → 14:45 **HL-LHC: ATLAS**

Speaker: Michele Pinamonti (Istituto Nazionale di Fisica Nucleare)

Energy frontier  
mid-term

🕒 10m



14:50 → 15:00 **HL-LHC: CMS**

Speaker: Ksenia de Leo (Istituto Nazionale di Fisica Nucleare)

🕒 10m



15:05 → 15:15 **Heavy ions beyond Run 4**

Speaker: Grazia Luparello (Istituto Nazionale di Fisica Nucleare)

🕒 10m



15:20 → 15:40 **Future Circular Collider**

Speaker: Giancarlo Panizzo (Istituto Nazionale di Fisica Nucleare & Università degli Studi di Udine)

Energy frontier  
Long-term

🕒 20m



15:45 → 16:00 **Silicon tracker development from ALICE towards FCCee**

Speaker: Giacomo Contin (Istituto Nazionale di Fisica Nucleare)

🕒 15m



16:05 → 16:30

Coffee break

🕒 25m

# Today agenda (2)

Energy frontier  
Long-term

Intensity  
frontier  
and QCD

16:30 → 16:50 **Muon Collider**

Speaker: Massimo Casarsa (Istituto Nazionale di Fisica Nucleare)

🕒 20m



16:55 → 17:10 **Flavour physics in the mid- and long-term**

Speaker: Radek Zlebcik (Charles University)

🕒 15m



17:15 → 17:25 **Amber Upgrade**

Speaker: Andrea Bressan (Istituto Nazionale di Fisica Nucleare)

🕒 10m



17:30 → 17:45 **ePIC**

Speaker: Silvia Dalla Torre (Istituto Nazionale di Fisica Nucleare)

🕒 15m



 DallaTorre\_ePIC\_EP...

17:50 → 18:05 **R&D on particle identification and photon detection**

Speaker: Chandradoy Chatterjee (Istituto Nazionale di Fisica Nucleare)

🕒 15m





# Today, really

- **An opportunity to meet and discuss physics together.**  
Raise awareness of what we are doing, what's going on next door, and ideally *foster collaborations and new synergies among us*.
- Hope to engage some youngsters and spark interest about the opportunities ahead and their possible research future!