



# FUTURE CIRCULAR COLLIDER

FCC Week 2025

Closing remarks

Michael Benedikt, CERN

Friday, 23 May 2025

Version: 2.0		Date: 20.05.2025																				
Day	Monday	Tuesday					Wednesday					Thursday					Friday	Day				
Time	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary	Parallel 1	Parallel 2	Parallel 3	Parallel 4	Board Room	Plenary	Time		
Room	Zeremoniensaal (472 p.)	Geheime Ratstube (146 p.)	Rittersaal (158 p.)	Trabantenstube (96 p.)	Künstlerzimmer (77 p.)	Radetzky Ap.1 (30 p.)	Zeremonienaal (500 p.)	Geheime Ratstube (146 p.)	Rittersaal (158 p.)	Trabantenstube (96 p.)	Künstlerzimmer (77 p.)	Radetzky Ap.1 (30 p.)	Geheime Ratstube (146 p.)	Rittersaal (158 p.)	Trabantenstube (96 p.)	Künstlerzimmer (77 p.)	Radetzky Ap.1 (30 p.)	Zeremoniensaal (472 p.)	Room			
08:00-08:30	Welcome coffee	Welcome coffee					Welcome coffee					Welcome coffee					Welcome coffee					
08:30-09:00	1. Welcome remarks 2. Welcome and introduction 3. FCC: a view from CERN council 4. Opening remarks and Perspectives from Austrian Academy of Science 5. Practical information 6. Concerence photo	Physics Case and Theory calculations J. Gluza (U.S. Katowice)	Baseline Optics I. Agapov (DESY)	Electricity & Energy Management N. Bellegarde (CERN)	Environment (i) S. Kleiner (CERN)		Physics Perf. & Detector Req. D. Elvira (FNAL)	Industry & Technology Day: Keynotes M. Boland (USASK)	FCC-ee Injector Overview M. Boland (USASK)	Magnets and power conversion S. Rimjaem (CMU)	SRF - Directions for R&D S. Belomestnykh (FNAL)		Machine Detector Interface (i) F. Palla (INFN)	SRF - Technology (III)	Integration and Radiation S. Bartolome (CERN)	Synergies and innovation (i) D. Martin (ESRF)	HTS Coated Conductors S. Calatroni (CERN)	1. FCC-hh and HFM 2. Civil Engineering 3. Technical infrastructure 4. Injector & Booster 5. Accelerator 6. Accelerator R&D including RF	08:30-09:00			
09:00-09:30																				09:00-09:30		
09:30-10:00																				09:30-10:00		
10:00-10:30		Coffee Break					Coffee Break					Coffee break					Coffee break					10:00-10:30
10:30-11:00	Coffee break	Physics Case and Theory calculations V. Del Duca (INFN)	Alternative Optics A. Faus-Golfe (JCLab)	RF Points and Cryogenics F. Gerigk (CERN)	Environment (ii) B. Delille (CERN)	CHART M. Benedikt	Software and Computing G. Ganis (CERN)	The value of Big Science R. Crescenzi (LSE)	FCC-ee INJ Linac and Damping Ring J. Seeman (SLAC)	Vacuum F. Djurabekova (U. Helsinki)	SRF - Technology (I) C. Pira (INFN)		Machine Detector Interface (ii) A. Drees (BNL)	FCC-hh accelerator Optics baseline V. Shiltsev (NIU)	Safety B. Delille (CERN)	Synergies and innovation (ii) G. Lamanna (LAPP)	HTS Coated Conductors S. Calatroni (CERN)	1. EPOL 2. MDI 3. Physics 4. Detectors 5. Early Career Researchers	10:30-11:00			
11:00-11:30	1. Key note: From HL-LHC to FCC 2. FCC Feasibility Study status 3. FCC Collaboration status																			11:00-11:30		
11:30-12:00																				11:30-12:00		
12:00-12:30		56 public sessions, 230 oral presentations, 33 posters																	Concluding remarks and outlook	12:00-12:30		
12:30-13:00																					12:30-13:00	
13:00-13:30	Lunch break																				13:00-13:30	
13:30-14:00		Detector concepts M. Dam (NBI)	Tuning and Operations R. Tomas (CERN)	Civil Engineering (i) M. Capeans (CERN)	Environment (iii) J. Gutleber		Physics Performance & Detector Req. P. Azzi (INFN)	WKO Industry session P. Sagmeister	FCC-ee INJ Booster and transfer lines J. Wenninger (CERN)	Injection & Instrumentation S. White (ESRF)	SRF - Technology (II) U. Van Rienen (UROS)		EPOL (i) A. S. Müller (KIT)	FCC-hh High Field Magnets (i) P. Vedrine (CEA)	Cooling & Ventilation, Geodesy I. Ruehl (CERN)	Beam Interception Devices	Scientific Advisory Committee meeting		13:30-14:00			
14:00-14:30	1. Implementation Scenario 2. Civil Engineering 3. FCC Accelerator Status 4. FCC Technologies & Technical Infrastructures																			14:00-14:30		
14:30-15:00																				14:30-15:00		
15:00-15:30		Coffee Break					Coffee Break					Coffee break							15:00-15:30			
15:30-16:00	Coffee break	Detector concepts: Calorimetry and PID M. A. Pleier (BNL)	Collective Effects L. Rivkin (PSI)	Civil Engineering (ii) M. Capeans (CERN)	IRIS EU Project J. Gutleber		Large-scale infrastructure projects in Austria R. Galler (MUL)						EPOL (ii) A. Blondel (LPNHE)	FCC-hh High Field Magnets (i) B. Müller (FIML)	Transport and Logistics C. Welsch (ULIV)	Machine protection and availability A. Parker (U. Cambridge)			15:30-16:00			
16:00-16:30	1. Theory challenges in precision calculations 2. Flavour and BSM through measurements at 90 GeV and beyond 3. Detectors for FCC-ee - status and next steps																			16:00-16:30		
16:30-17:00																				16:30-17:00		
17:00-17:30			Early Career Reserchers										Poster session Detector concepts F. Sefkow (DESY)							17:00-17:30		
17:30-18:00		International Collaboration Board P. Chomaz (CEA)																		17:30-18:00		
18:00-18:30																				18:00-18:30		
18:30-19:00	Welcome reception																			18:30-19:00		
19:00-19:30																				19:00-19:30		
19:30-20:00																				19:30-20:00		
20:00-20:30																				20:00-20:30		
20:30-21:00																				20:30-21:00		

Legend

- Plenary session
- Physics, Experiments and Detectors (PED)
- Joint PED and accelerator
- FCC-ee accelerator
- FCC-ee Injector
- FCC-hh accelerator and magnets
- Accelerator Technical Design
- SRF
- Technical Infrastructure
- Civil Engineering
- Environment
- Governance (closed session)
- Industry & Technology Day
- Early Career Researchers
- Breaks

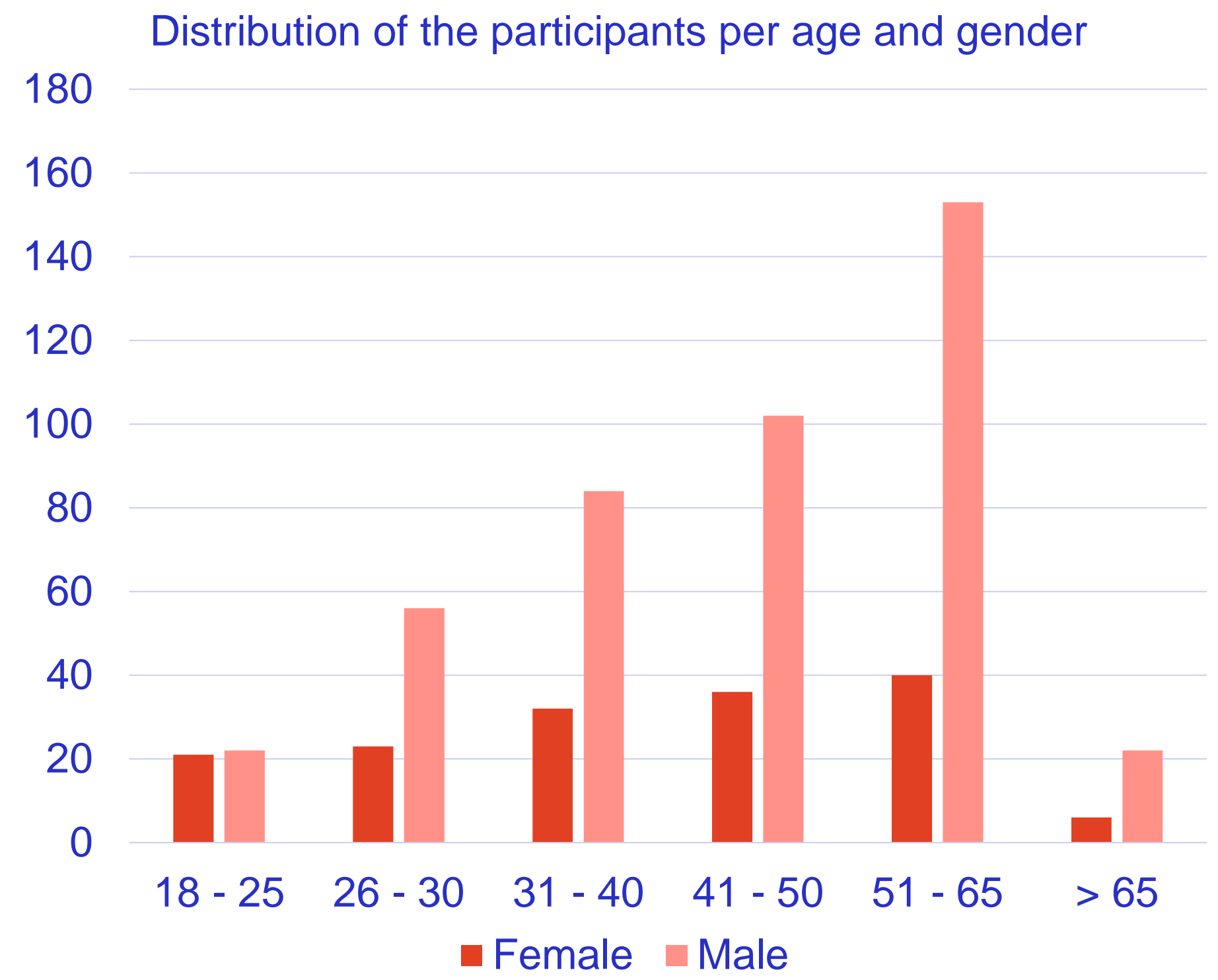
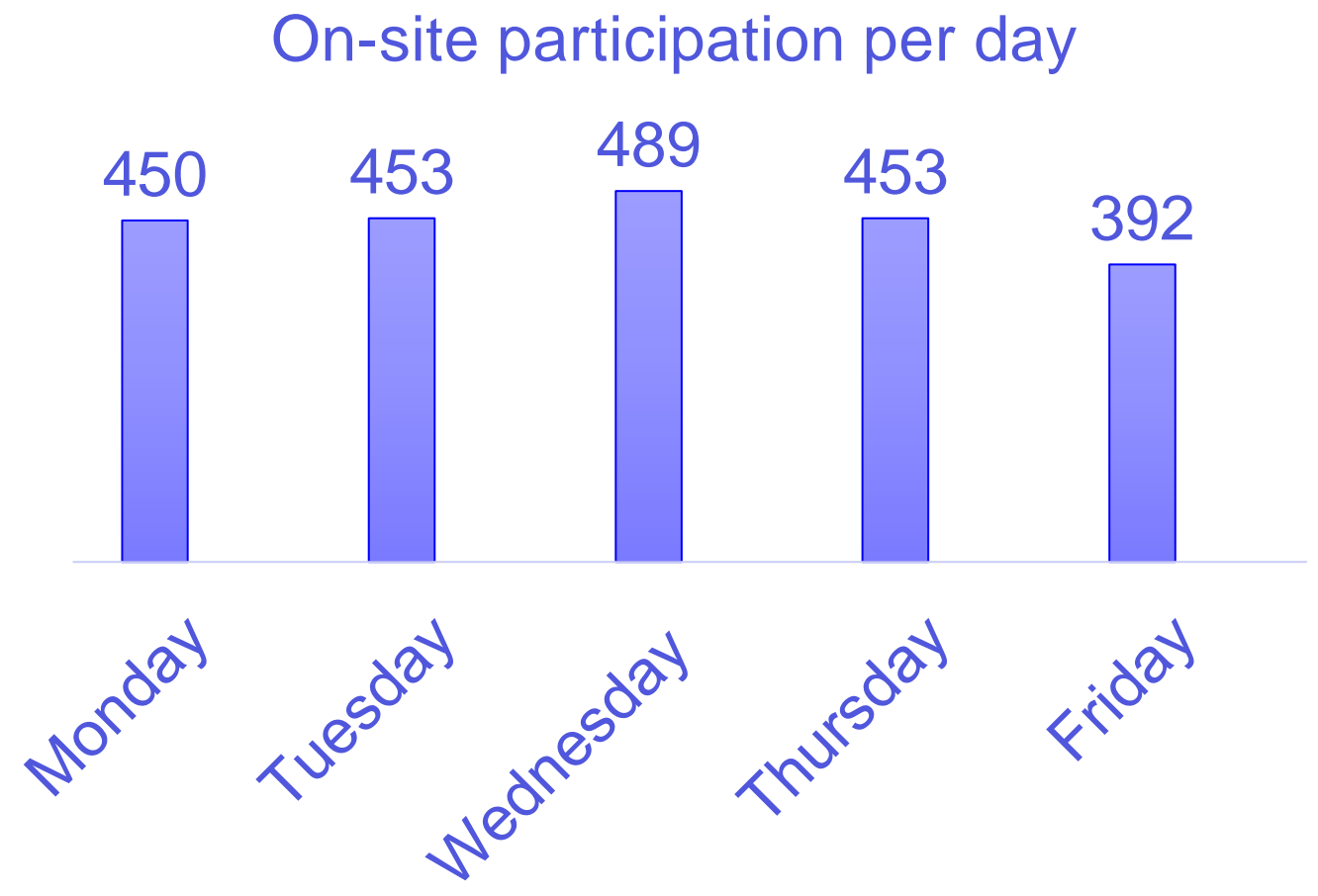
Many thanks to the **session conveners** for keeping order during these dense days, to all **presenters** for the outstanding quality of work and contributions

# Audience distribution

614 participants including 58 remote

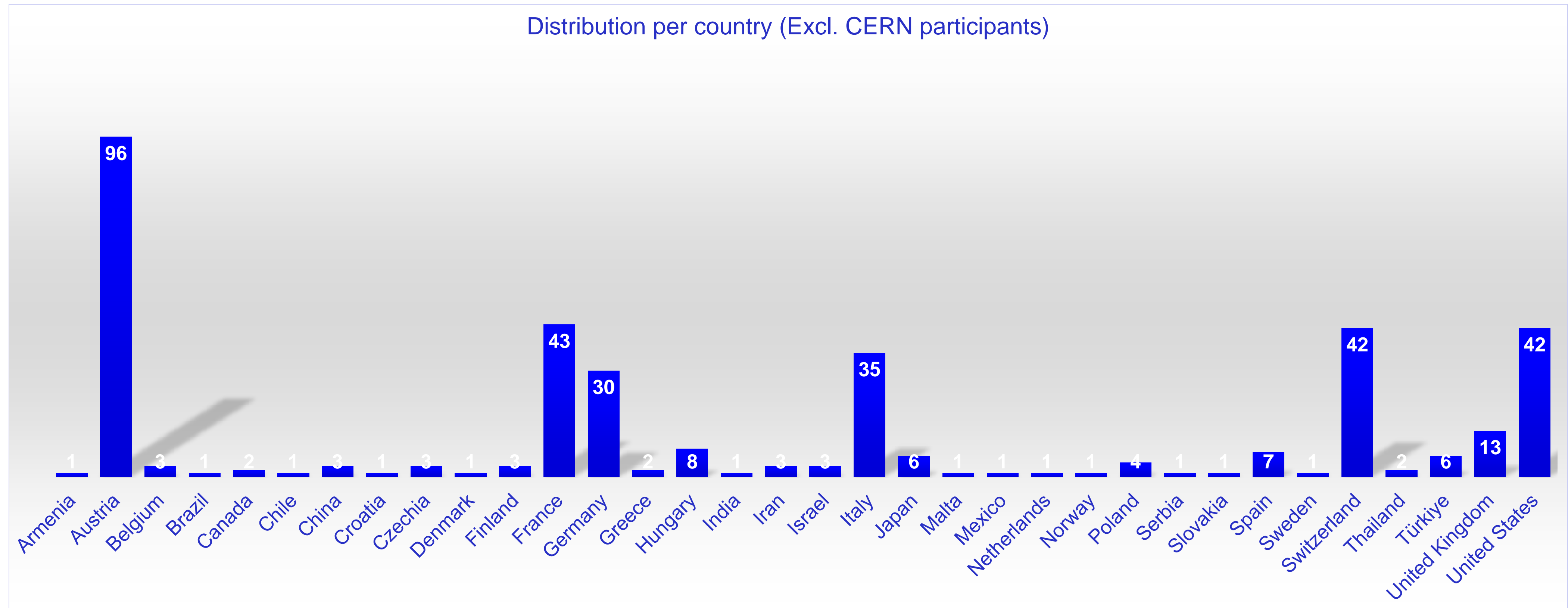
557 on site including

- 63 passes for 1 or 2 days
- 71 students (~13%)



Source: FCC Week 2025 registration form, excluding 'would rather not say' answers

# Audience distribution - 34 countries represented



Source: FCC Week 2025 registration form, excluding 'would rather not say' answers

# Wheel of Science – Teilchenphysik im Riesenrad

## Outreach Event – Wiener Prater, May 19, 2025

- ~750 visitors (650 students, 100 individual)
- Physics-themed rides on the Vienna Giant Ferris Wheel (particle physics, CERN, LHC, FCC, ...)
- ~550 also attended shows & talks in the nearby Planetarium
- Hands-on experiments by PhysikMobil
- Many thanks to the ~20 volunteer guides and speakers from HEPHY and FCC Week attendees
- Special thanks to **Elisabeth Renner, Natascha Krammer, Christoph Schwanda, Panos Charitos, Brigitte De Monte and Christof Falkenberg** for the organisation, branding and the logistics of the event.



# Public event – The Higgs Boson and our life

- FCC Week's 2025 Public Event at the Austrian National Library
- Fabiola Gianotti (CERN's DG), Ulrike Diebold (Vice President of Austrian Academy of Sciences), Verena Ringler (EU Governance Innovator) - Moderated by Florian Aigner (TU Wien)
- Full house with more than 350 guests, plus about 1000 watching the live stream of the event.



**The Higgs Boson and our life**

Speakers:

- Fabiola Gianotti**  
(Director General, CERN)
- Ulrike Diebold**  
(Vice President, Austrian Academy of Sciences)
- Verena Ringler**  
(Diplomacy and Governance Innovator)

Moderator:

- Florian Aigner**  
(TU Wien)

Public Event

**Tuesday 20th May 19:00**  
Venue: Austrian National Library

# Pint of Science

- In Vienna's Pickwick Pub
- Talks by Josef Pradler and Robert Schöfbeck from Institute for High Energy Physics OeAW.

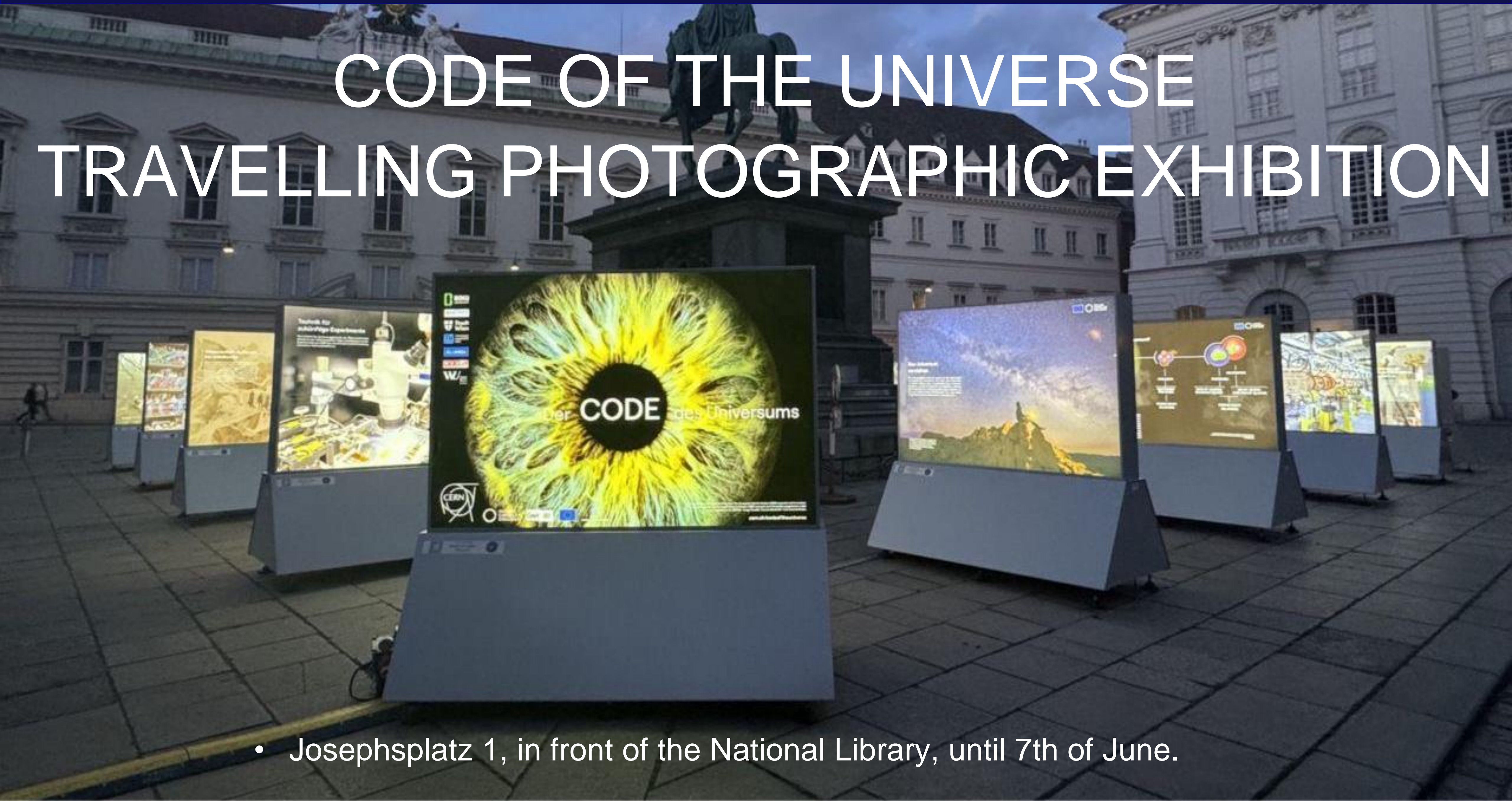


**Mittwoch, 21. Mai**

*Zwischen Mythen und Materie*



# CODE OF THE UNIVERSE TRAVELLING PHOTOGRAPHIC EXHIBITION



- Josephsplatz 1, in front of the National Library, until 7th of June.

# CERN Industry & Technology Day



A unique platform for **industry representatives to engage directly with experts, policymakers, and CERN representatives**, delving into the **economic, technological, and societal impact of Big Science projects.**

With over **60 participants from 35 diverse companies**—many of whom have previously collaborated with CERN—the event also highlighted new opportunities for contributing to the development of the Future Circular Collider (FCC).

The final session, chaired by Prof. Robert Galler, provided valuable insights into **Austria's large-scale infrastructure project.**

**We extend our sincere thanks to WKO – Aussenwirtschaft Austria for their strong support in organizing this meeting, and to our sponsors, UNIQA and PORR, for helping make this event possible.**



# Many thanks to many people!!!

## Local Organizing Committee

- Bernardi, Johannes - TU Wien
- De Monte, Brigitte - HEPHY/ÖAW
- Falkenberg, Christof - BOKU
- Garaus, Christian - BOKU
- Mooslechner, Markus - TMFS
- Renner, Elisabeth - TU Wien
- **Schwanda, Christoph - HEPHY/ÖAW**
- Staudinger, Christiana – BOKU

## CERN Organizing Committee

- Benedikt, Michael
- Charitos, Panagiotis
- Goldsworthy, David
- Gutleber, Johannes
- Hadre, Julie
- Krammer, Manfred
- Ricci, Angela
- Unnervik, Anders
- Zimmermann, Frank

## FCC Scientific Advisory Committee

## FCC Steering Committee

## International Collaboration Board



## Student helpers

- Paula Hickersberger
- Clara Becker
- Nana Okropiridze
- Piera Galeazzo
- Katrin Holzfeind
- Lukas Fuxreiter
- Lara Trifunovic
- Nadine Fiederer
- Sophie Kleedorfer
- David Hofmann
- Jakob Gruber
- Martin Binder
- David Muxel
- Juraj Habala
- Bernhard Pils
- Maximilian Babeluk
- Andreas Gsponer

## Wheel of Science Volunteers

- Wolfgang Adam
- Wolfgang Bartmann
- Hans Peter Beck
- Freya Bleckmann
- Alexander Böhmer
- Marko Dragicevic
- Hannes Gamper
- Andreas Gsponer
- Stefan Gundacker
- Michael Hoch
- Barbara Humann
- Armin Ilg
- Manfred Jeitler
- Jacqueline Keintzel
- Natascha Krammer
- Florian Reindl
- Cristhian Ricaurte
- Johannes Ruf
- Jochen Schieck
- Andreas Schlögelhofer
- Nikolaus Schneider

**Sponsors:** UNIQA, WKO, PORR, City of Vienna

## Back office onsite:

Brigitte De Monte (HEPHY), Simone Krüger (HEPHY), Angela Ricci (CERN), David Goldsworthy (CERN)

! Save the date !





**Thank you for all your work and contributions to FCCW 2025 in Vienna.  
Looking forward to meeting you at FCCW 2026 in Helsinki. Have a safe travel back home!**