







HB 2023

68th ICFA Advanced Beam Dynamics Workshop on High-Intensity and High-Brightness Hadron Beams

CERN, European Organization for Nuclear Research
Geneva, Switzerland 9-13 October 2023



hb.2023@cern.ch



Chair : E. Metral
Co-Chair : S. Gilardoni
Assistants : M. Alegria
S. Martakis
A. Valenza

IOC, LOC and EB :
<https://indico.cern.ch/e/HB2023>

Working Groups
Beam Dynamics in Rings
Beam Dynamics in Linacs
Accelerator Systems
Operations and Commissioning
Beam Instrumentation and Intercepting Devices

Deadlines
Abstract submission 15 July 2023
Registration 15 September 2023
Paper submission 1 October 2023



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MANY THANKS!

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In case you need anything (such as e.g. a proof of participation), please use this email address



IOC: International Organising Committee

HB 2023

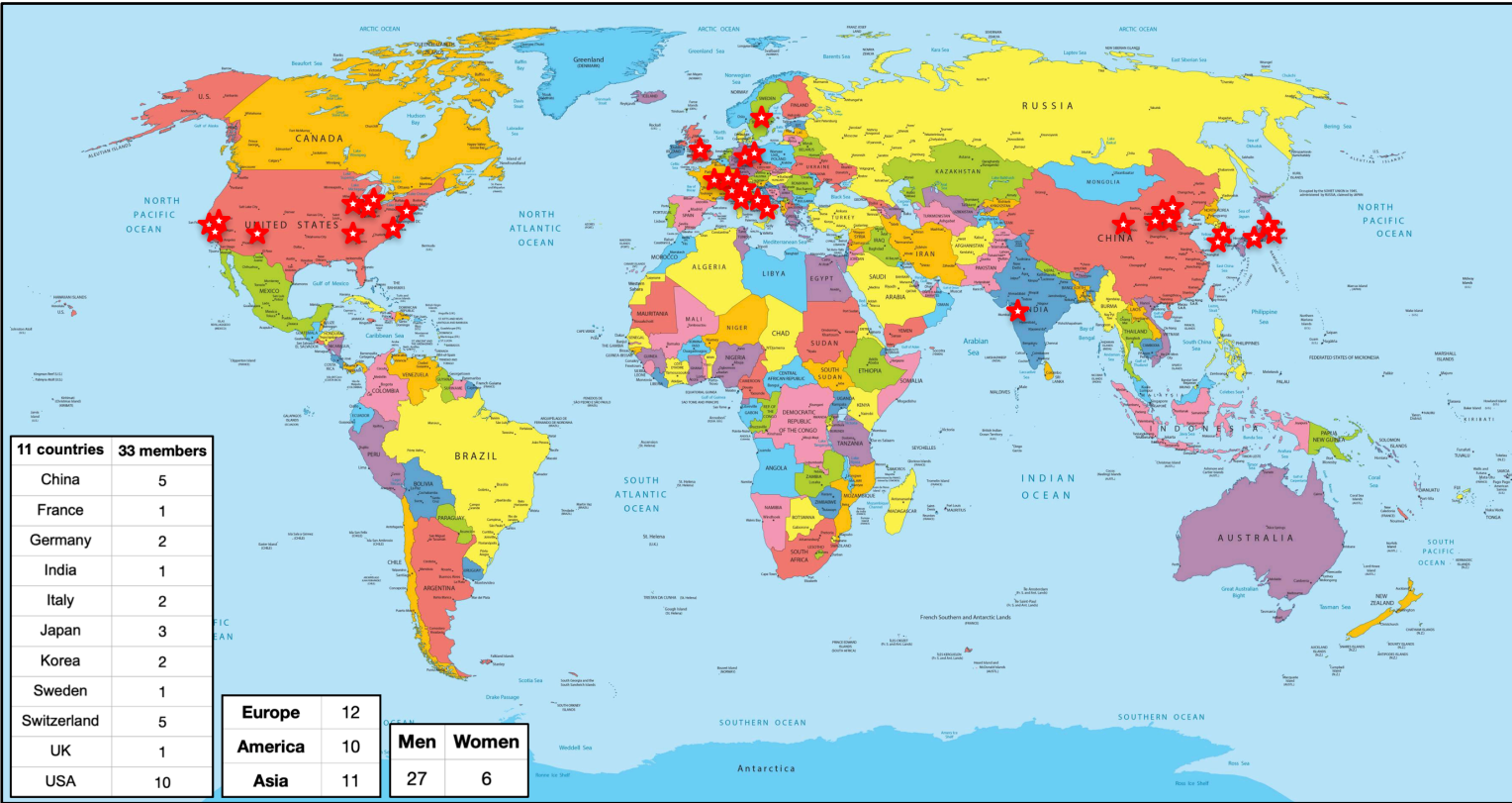


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- Ji Wei, Michigan State University, USA
- Yoshishige Yamazaki, FRIB/MSU, USA
- Xueqing Yan, PKU, Peking University, China
- Hongwei Zhao, IMP, Institute of Modern Physics, China



11 countries	33 members
China	5
France	1
Germany	2
India	1
Italy	2
Japan	3
Korea	2
Sweden	1
Switzerland	5
UK	1
USA	10

Europe	12
America	10
Asia	11

Men	Women
27	6



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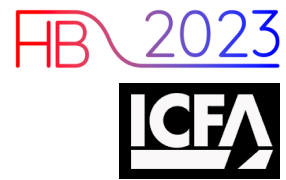


The 6 different roles of participants in colours





The 6 different roles of participants in colours

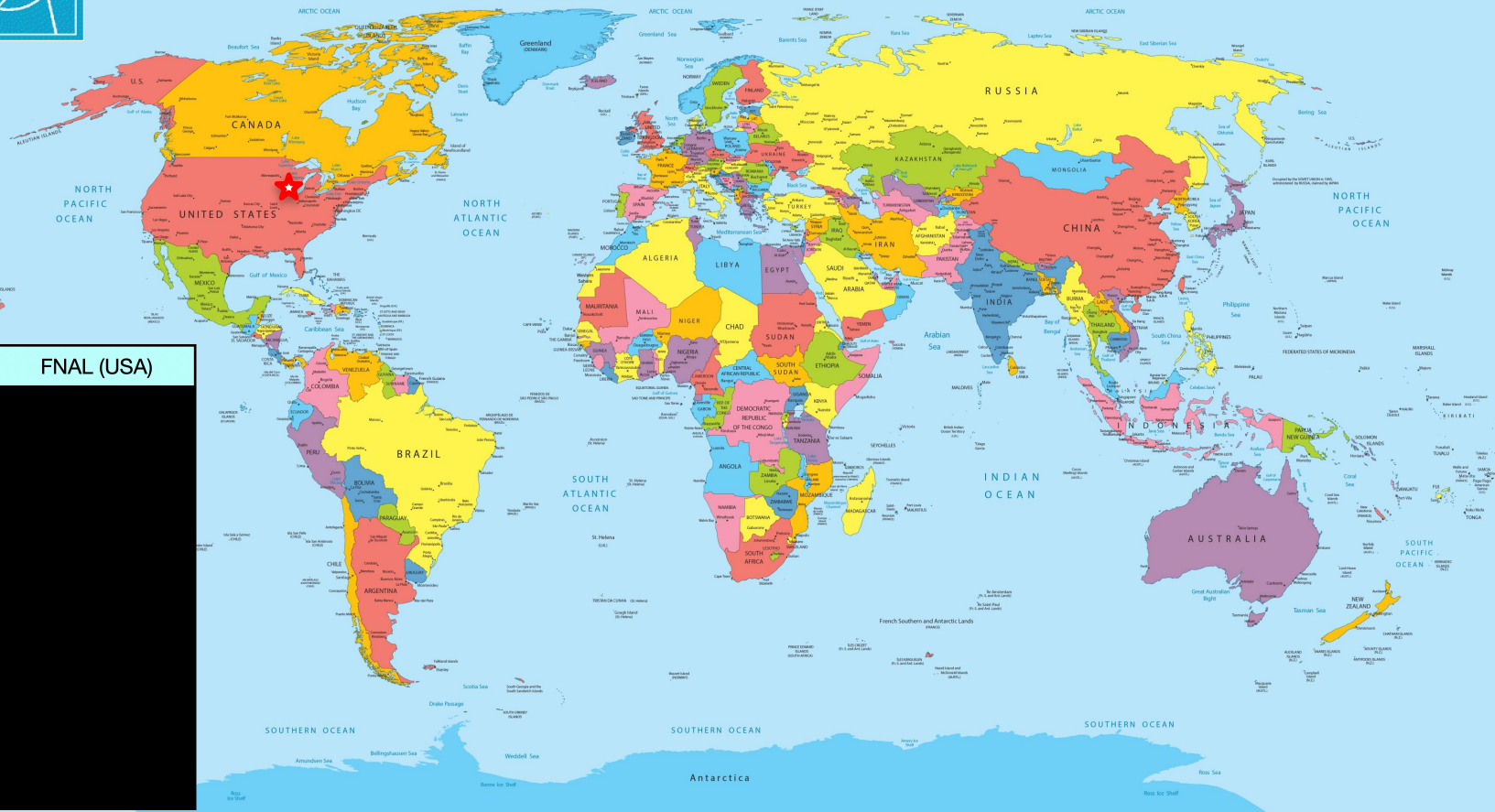


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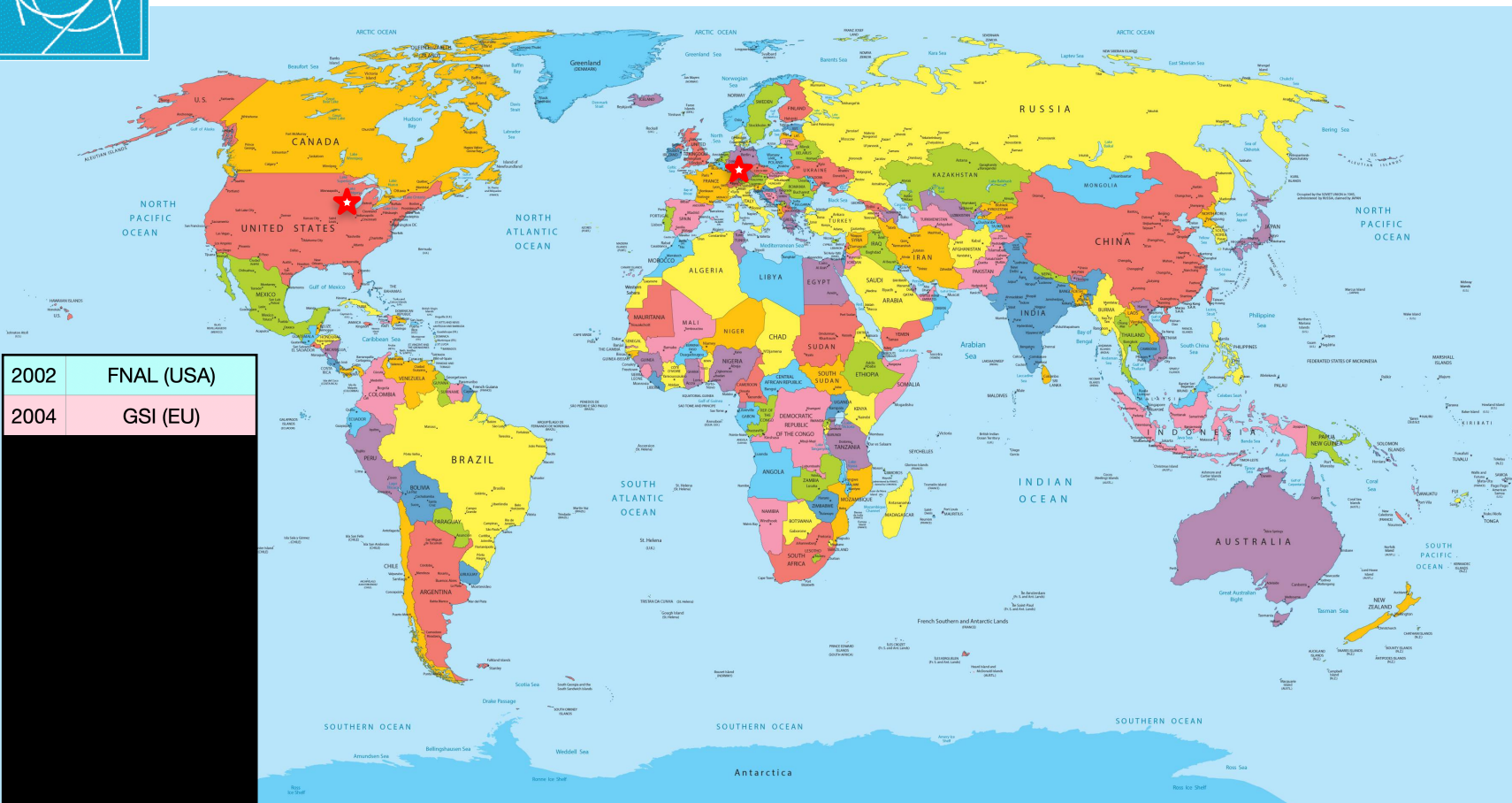
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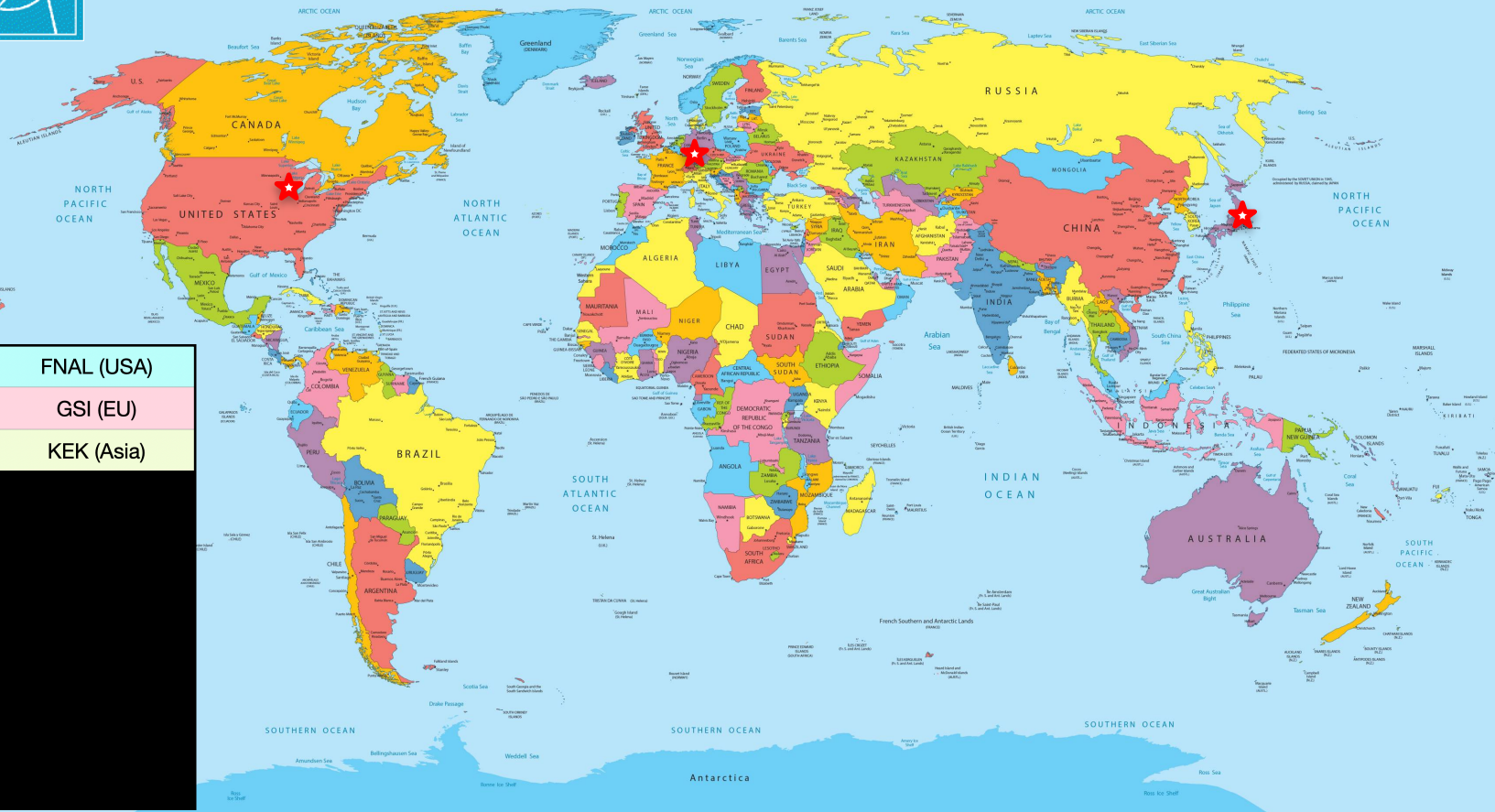


2002	FNAL (USA)
2004	GSI (EU)



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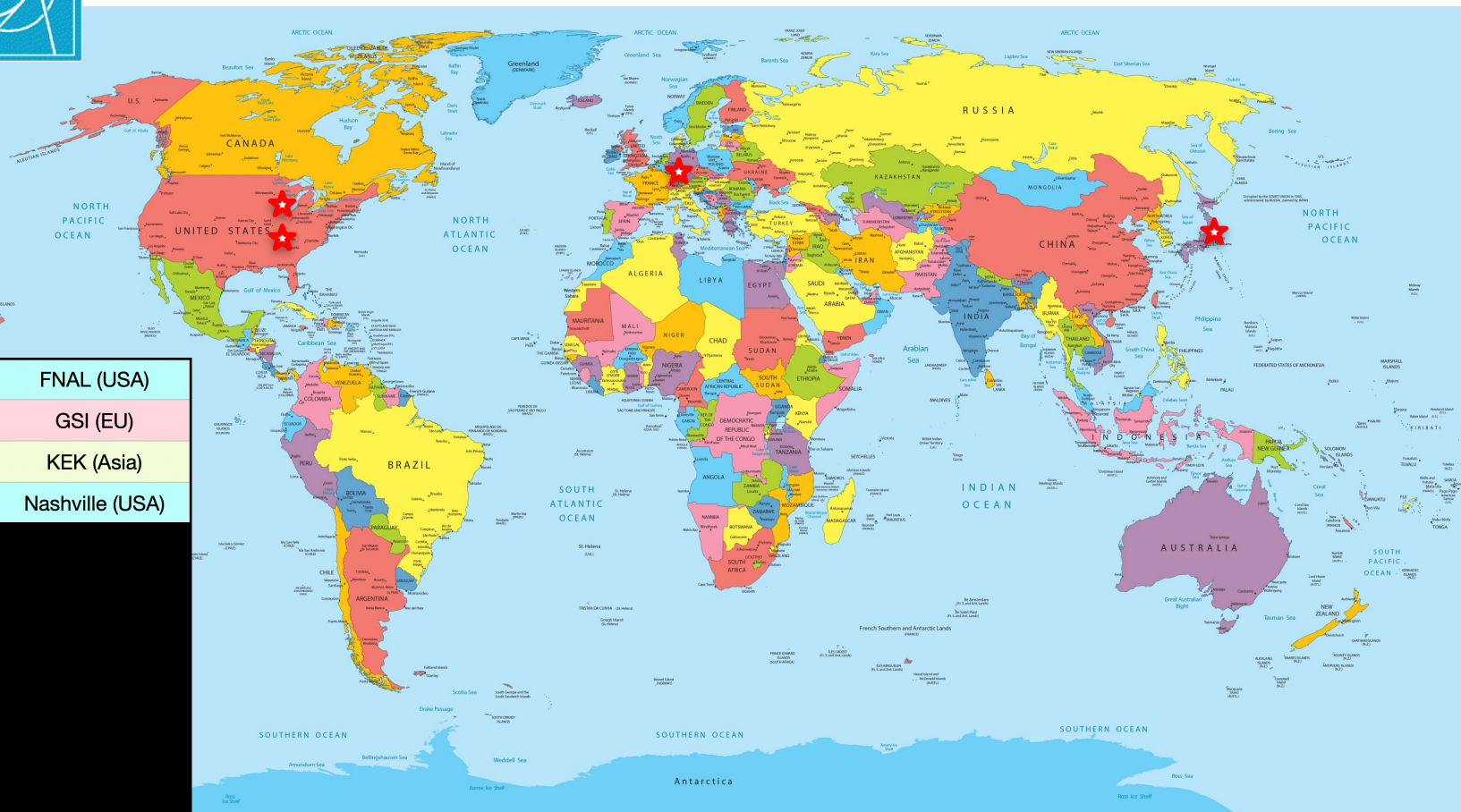


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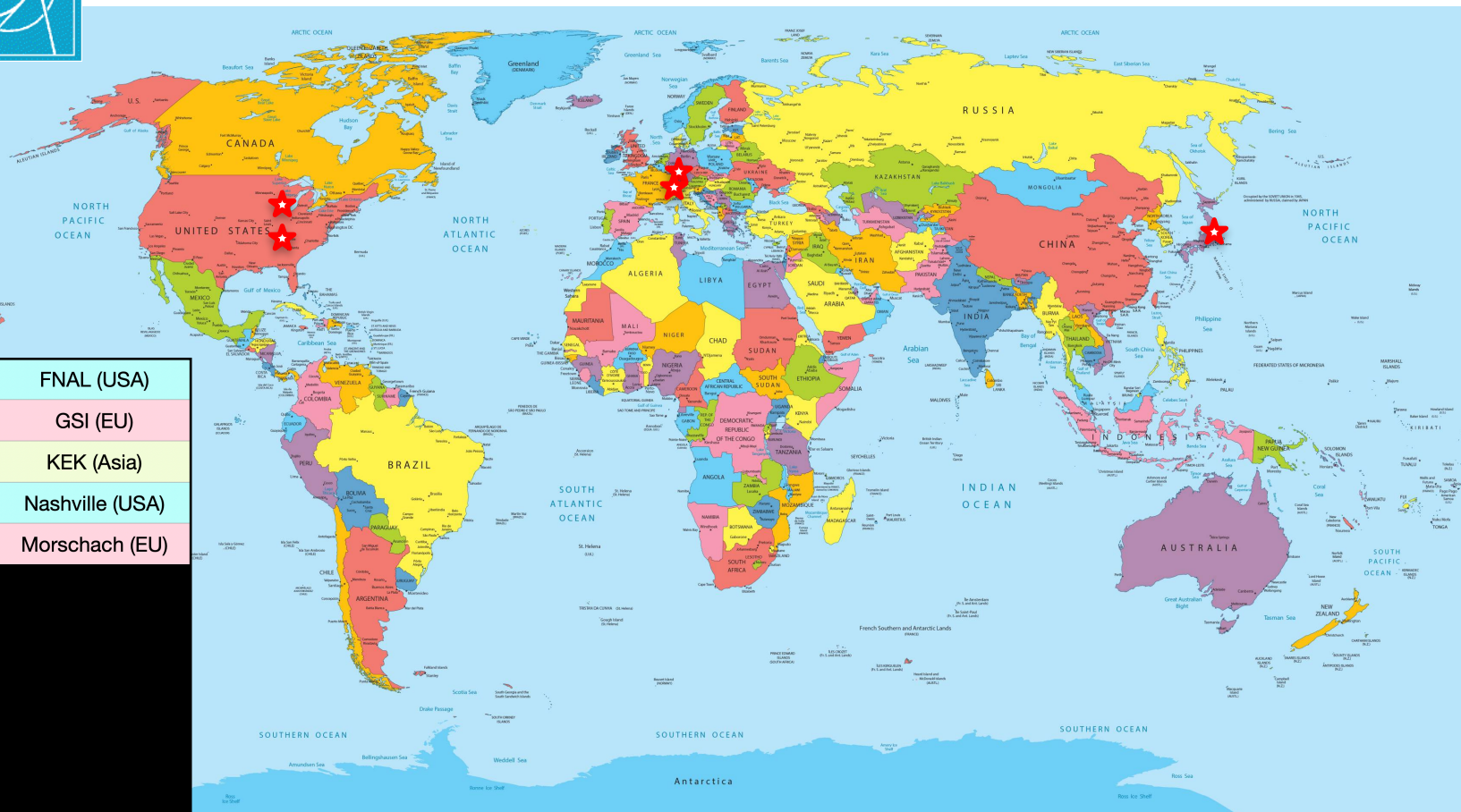


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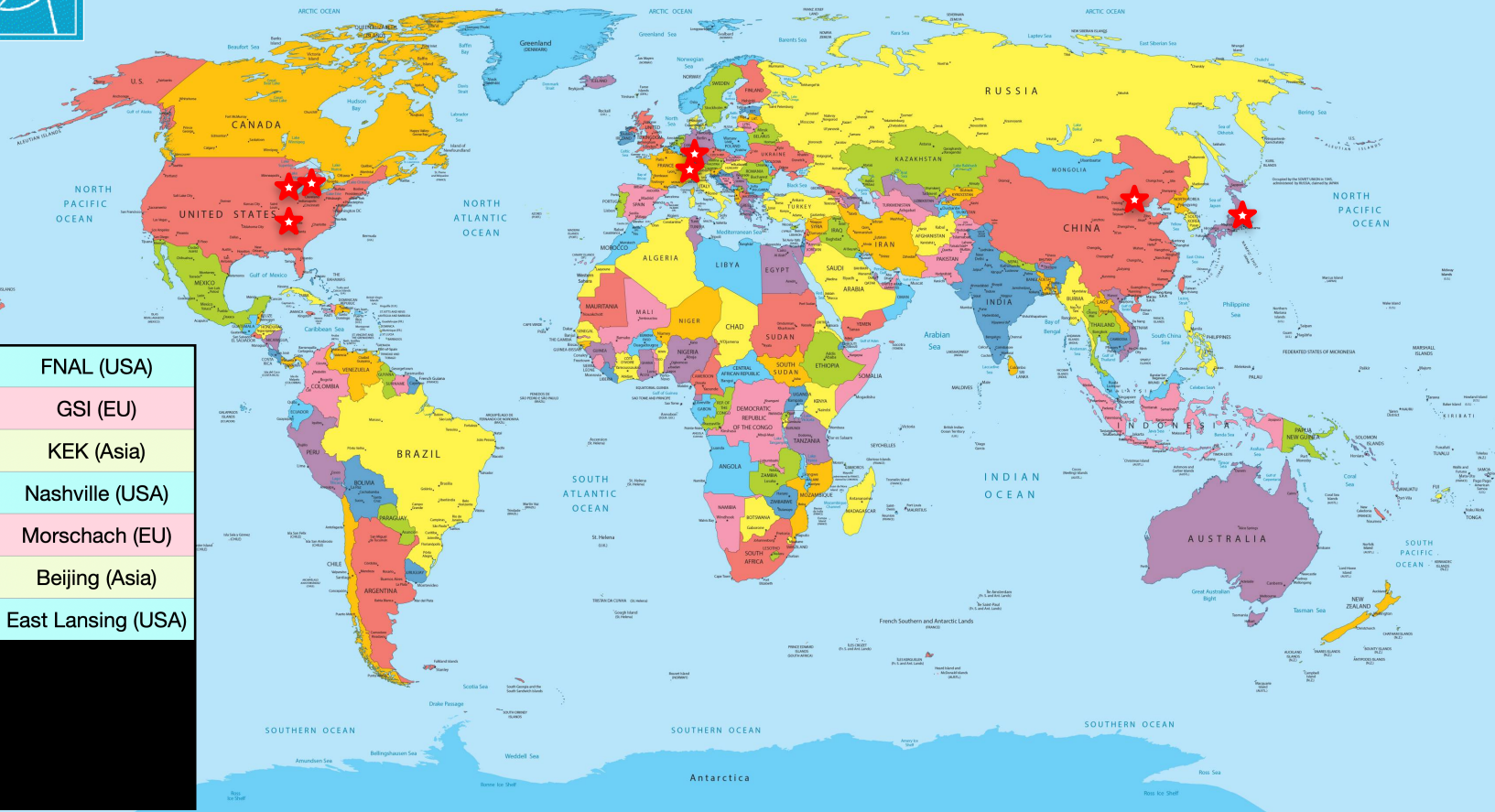


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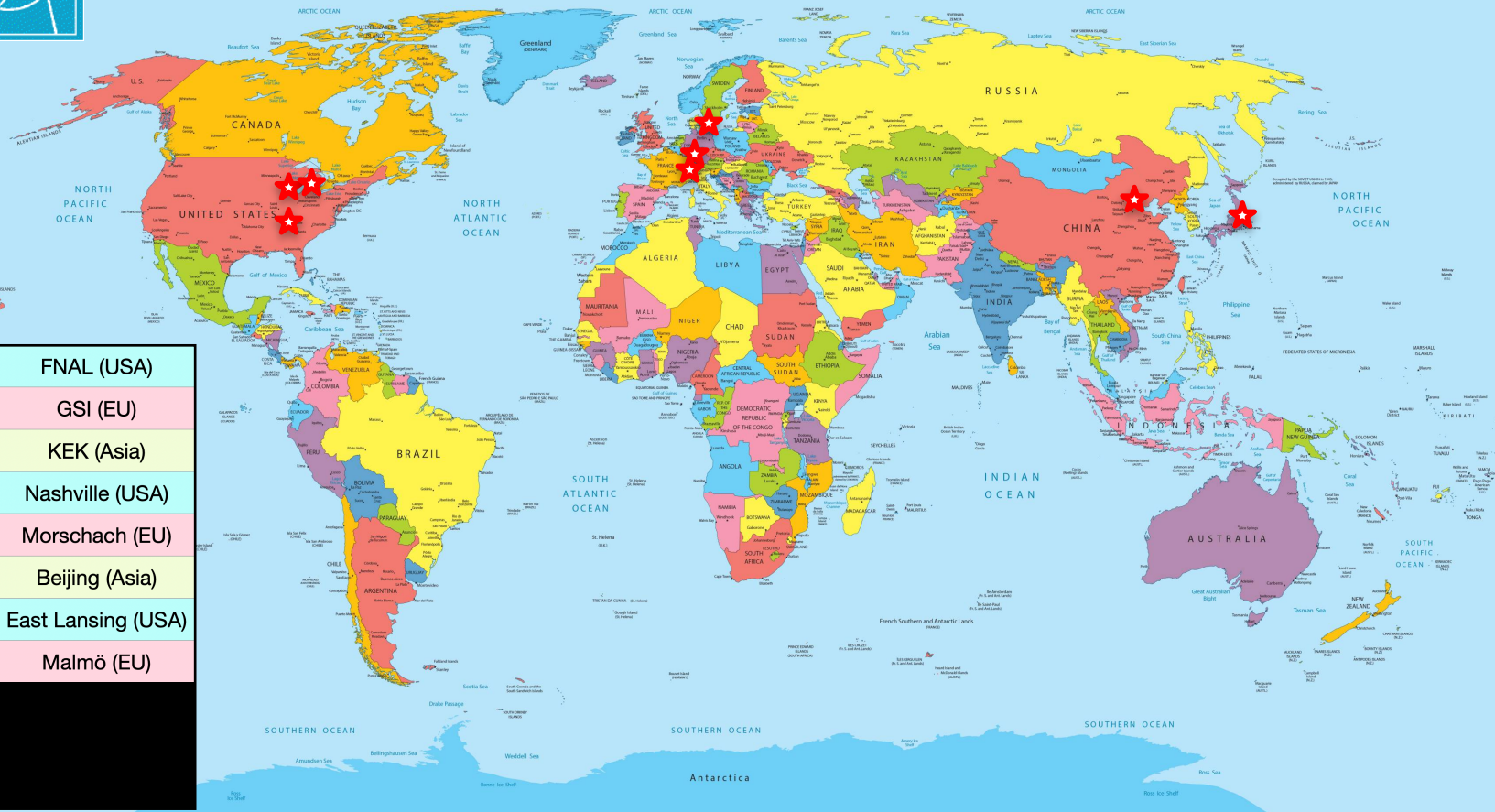


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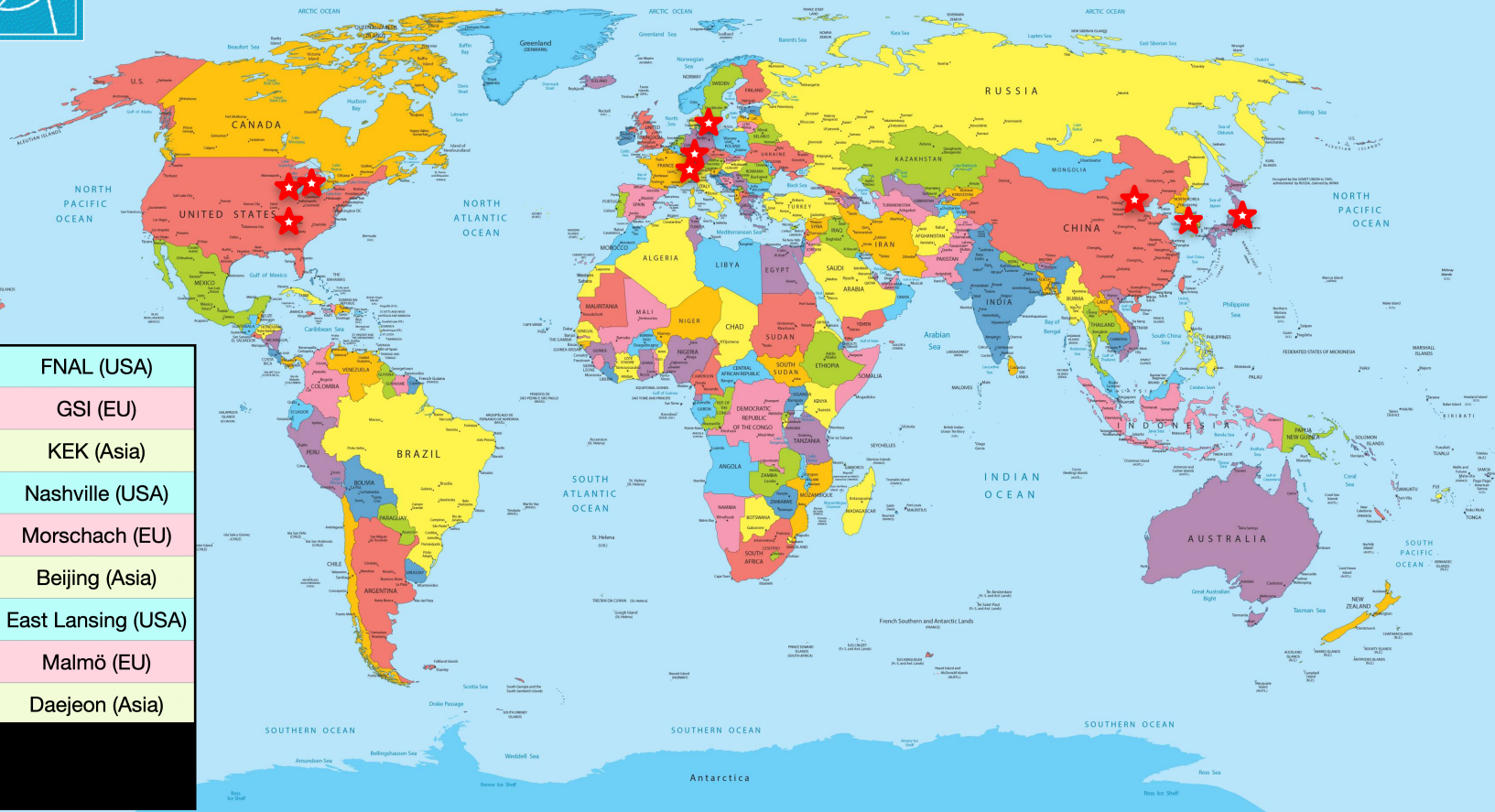


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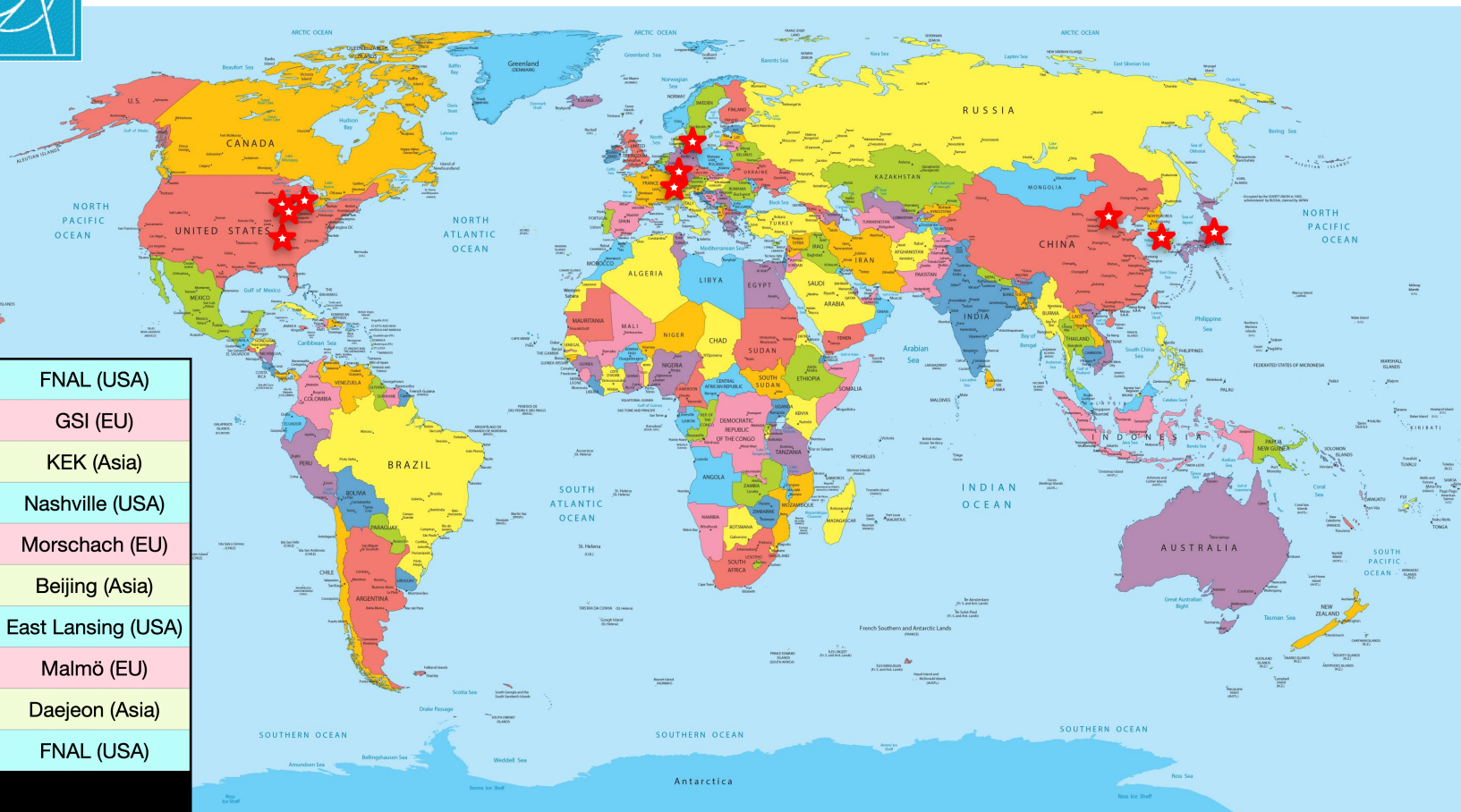


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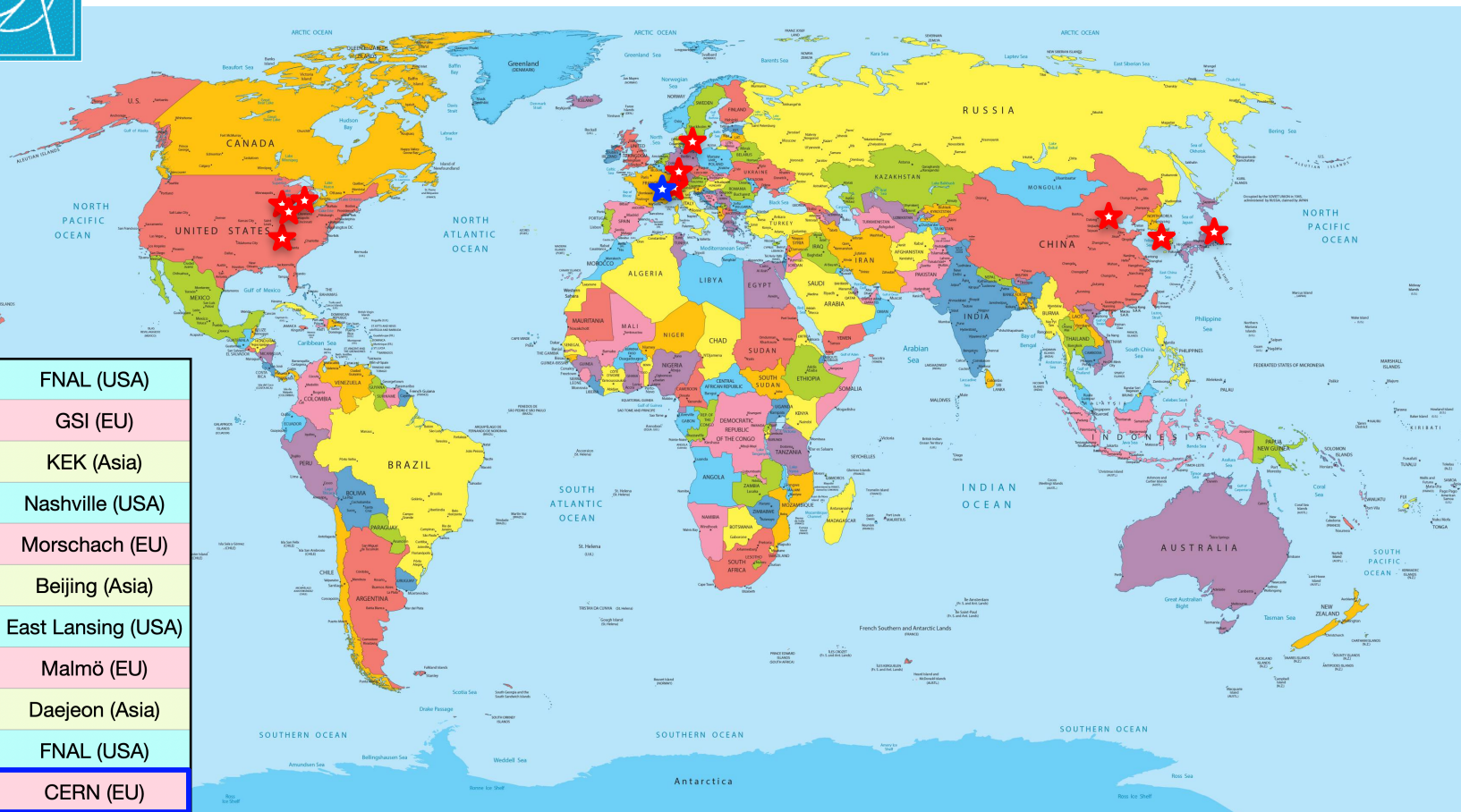


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2016	Malmö (EU)
2018	Daejeon (Asia)
2021	FNAL (USA)



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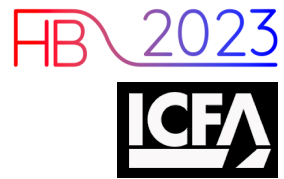
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2012	Beijing (Asia)
2014	East Lansing (USA)
2016	Malmö (EU)
2018	Daejeon (Asia)
2021	FNAL (USA)
2023	CERN (EU)



Reminder about the HB series



*1st slide of the recent CERN seminar from
Giuliano Franchetti (on 16/08/2023)*

Simulation of a space charge induced loss mechanism

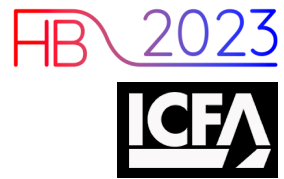
G. Franchetti, I. Hofmann

GSI Darmstadt

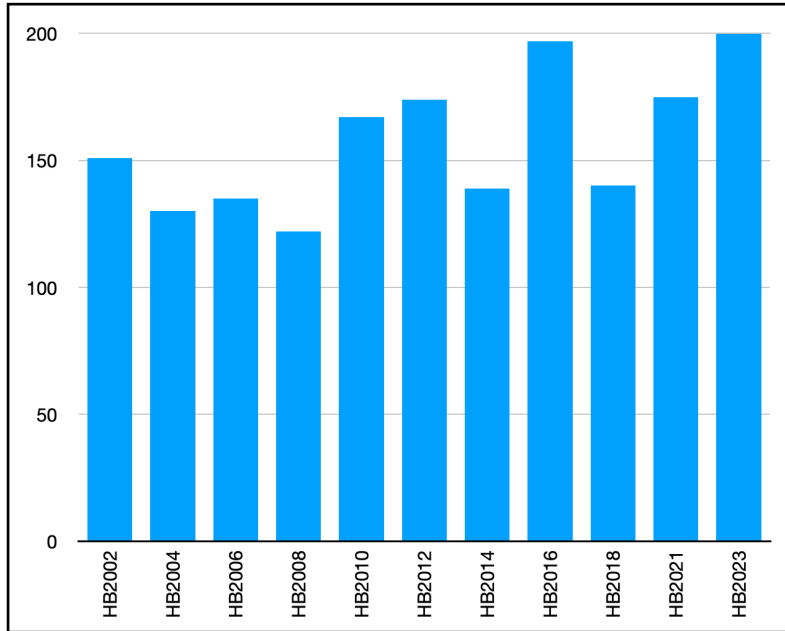
ICFA
Fermilab April, 8-12 2002



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Number of participants

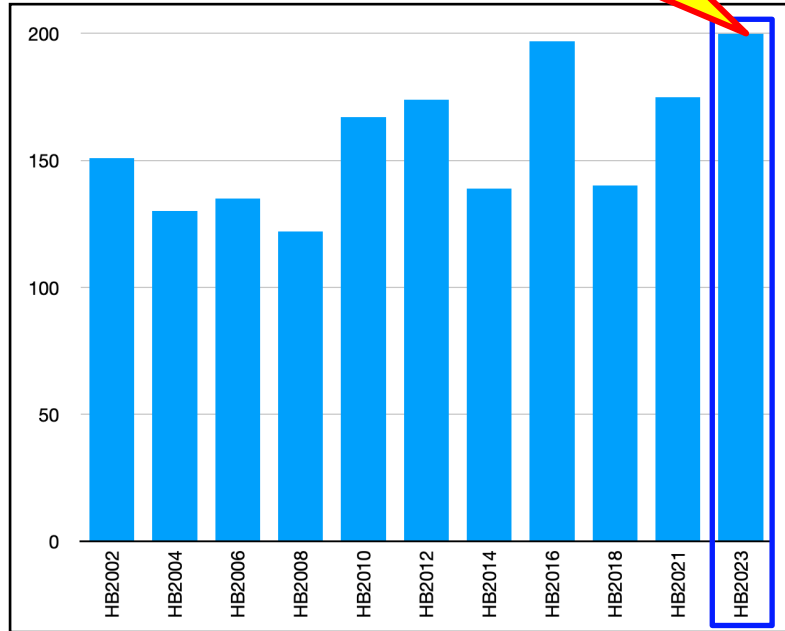




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We closed the registration at 200!

Number of participants



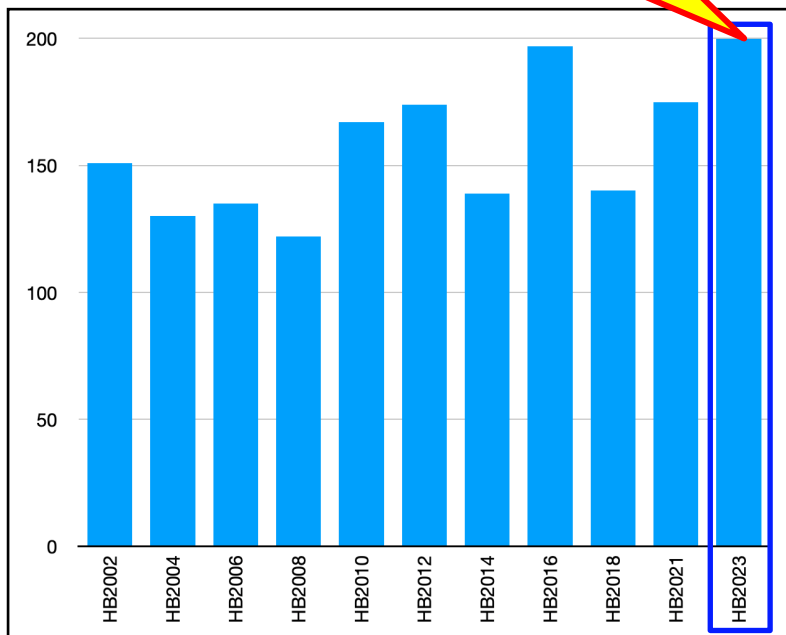


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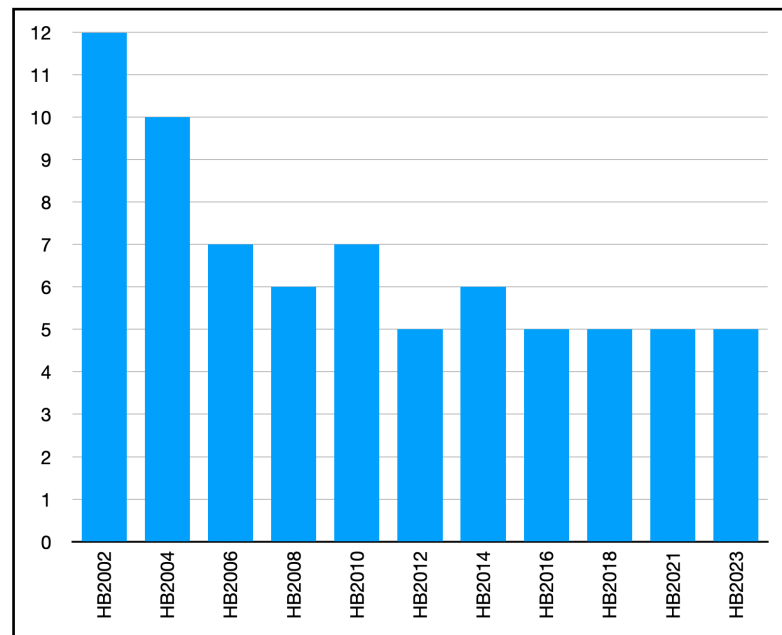


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Number of participants



Number of Parallel Sessions (WGs)



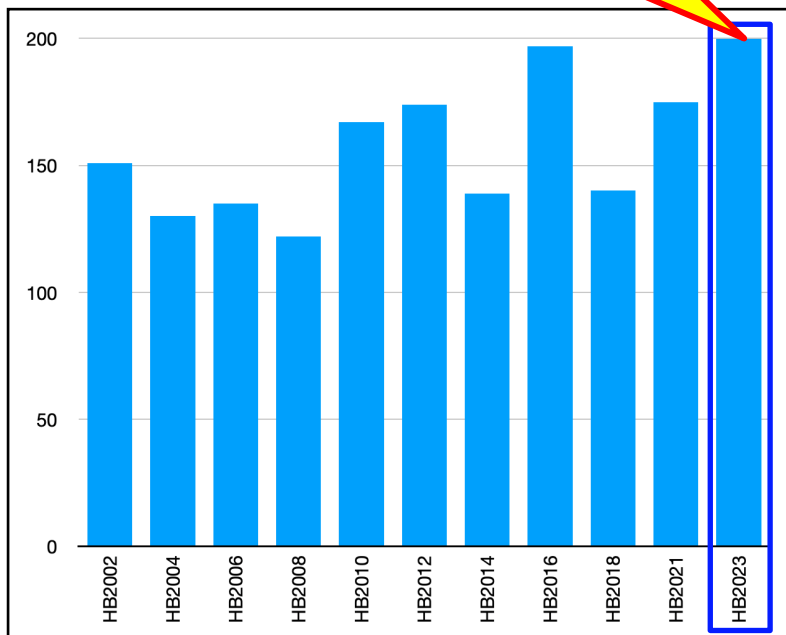


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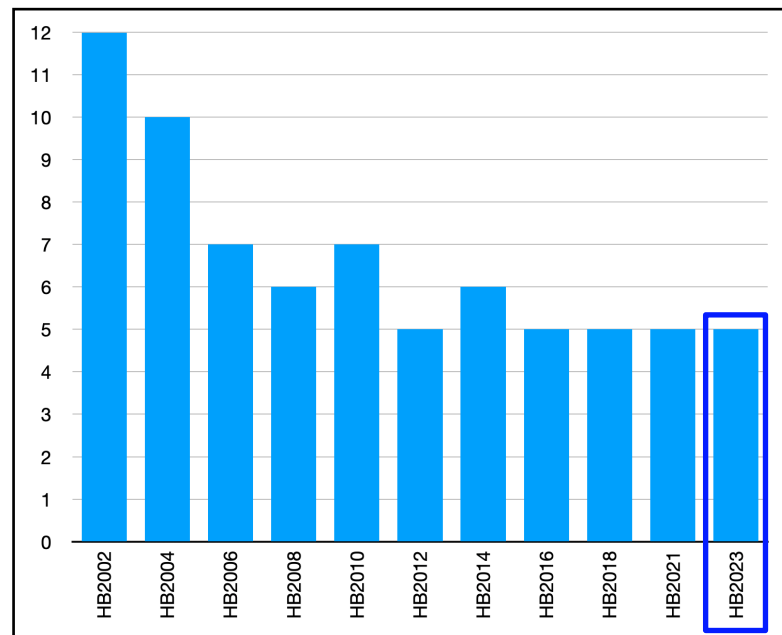


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Number of participants



Number of Parallel Sessions (WGs)





**CERN Science Gateway
(new outreach centre for science
education) was inaugurated on
Saturday (07/10/23)**





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Globe

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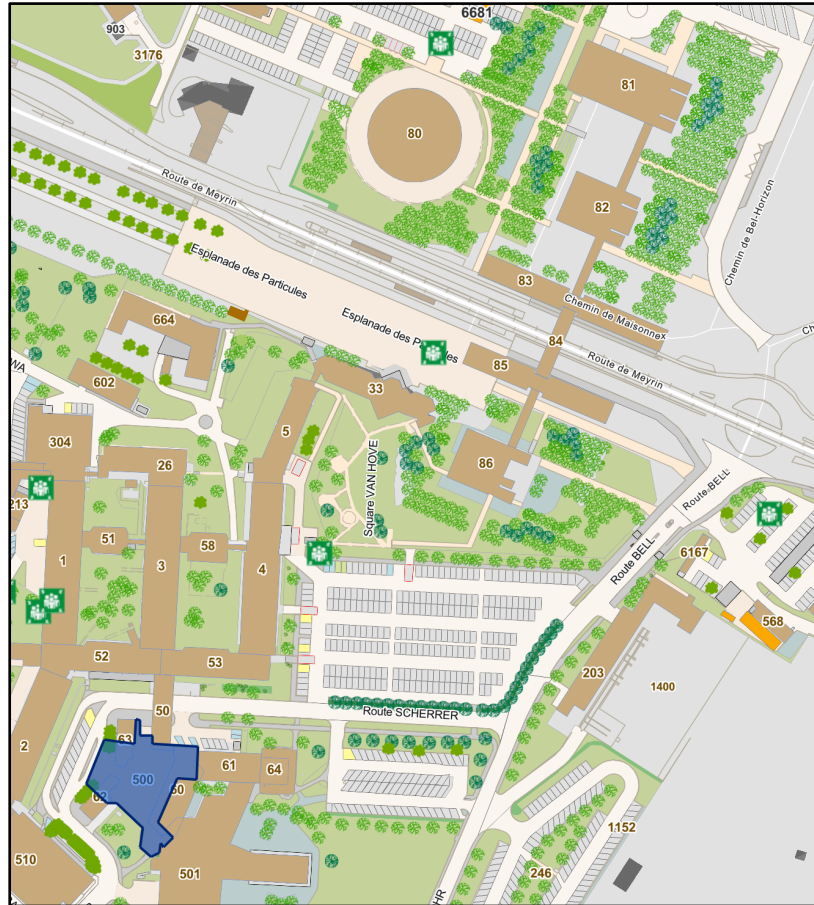


Tram
(CERN stop)





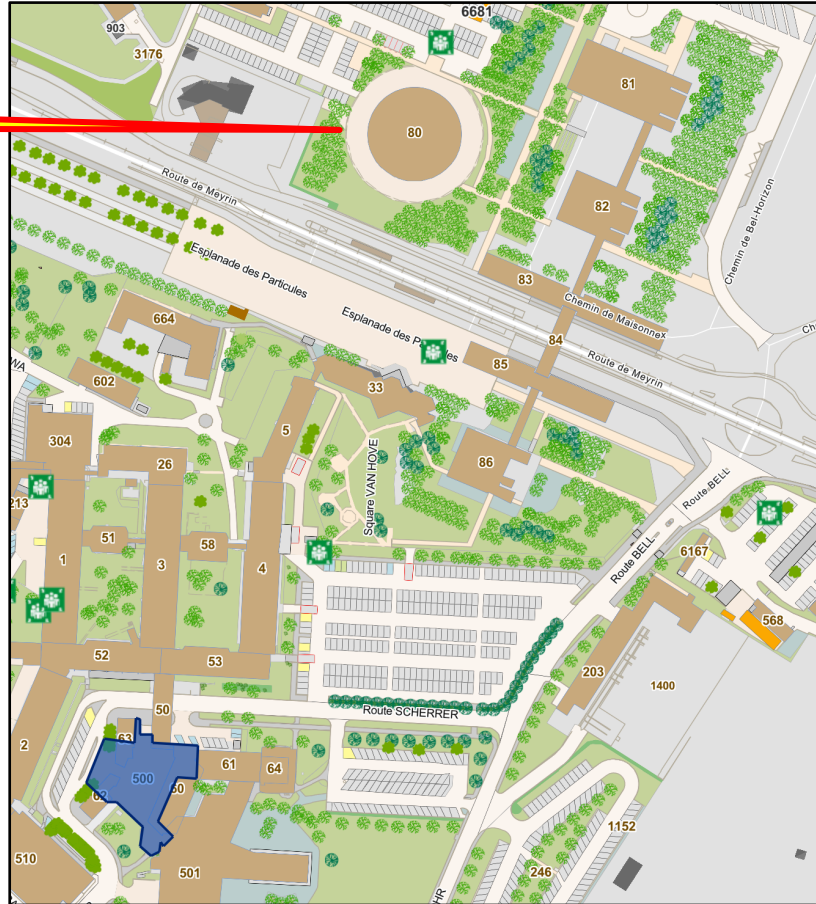
Workshop's location





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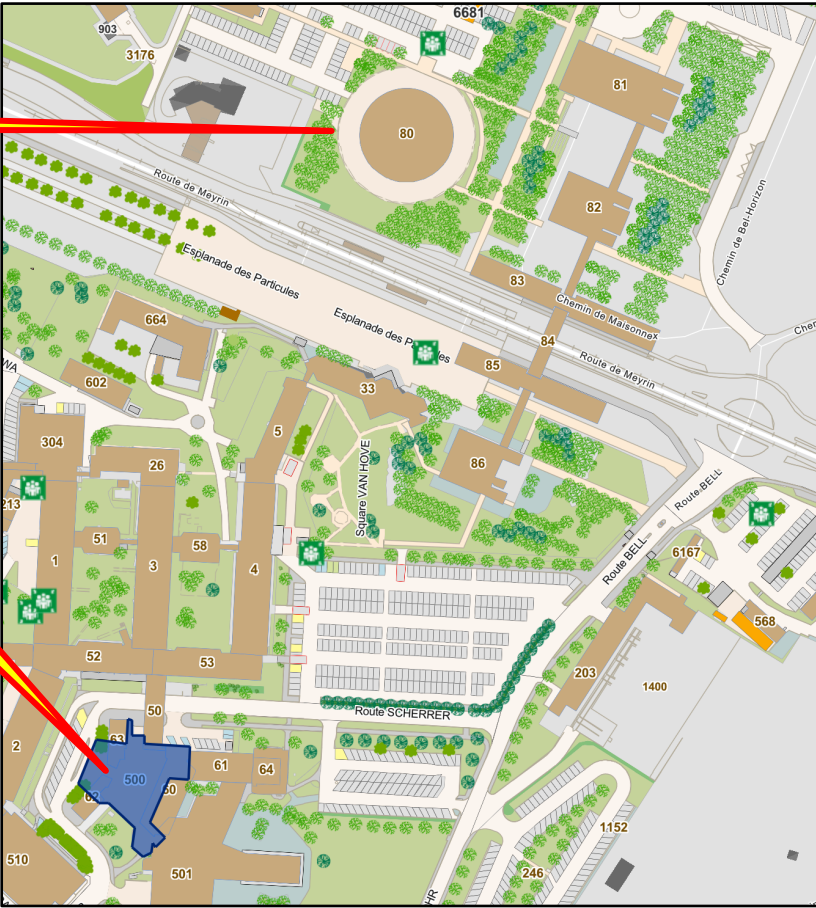
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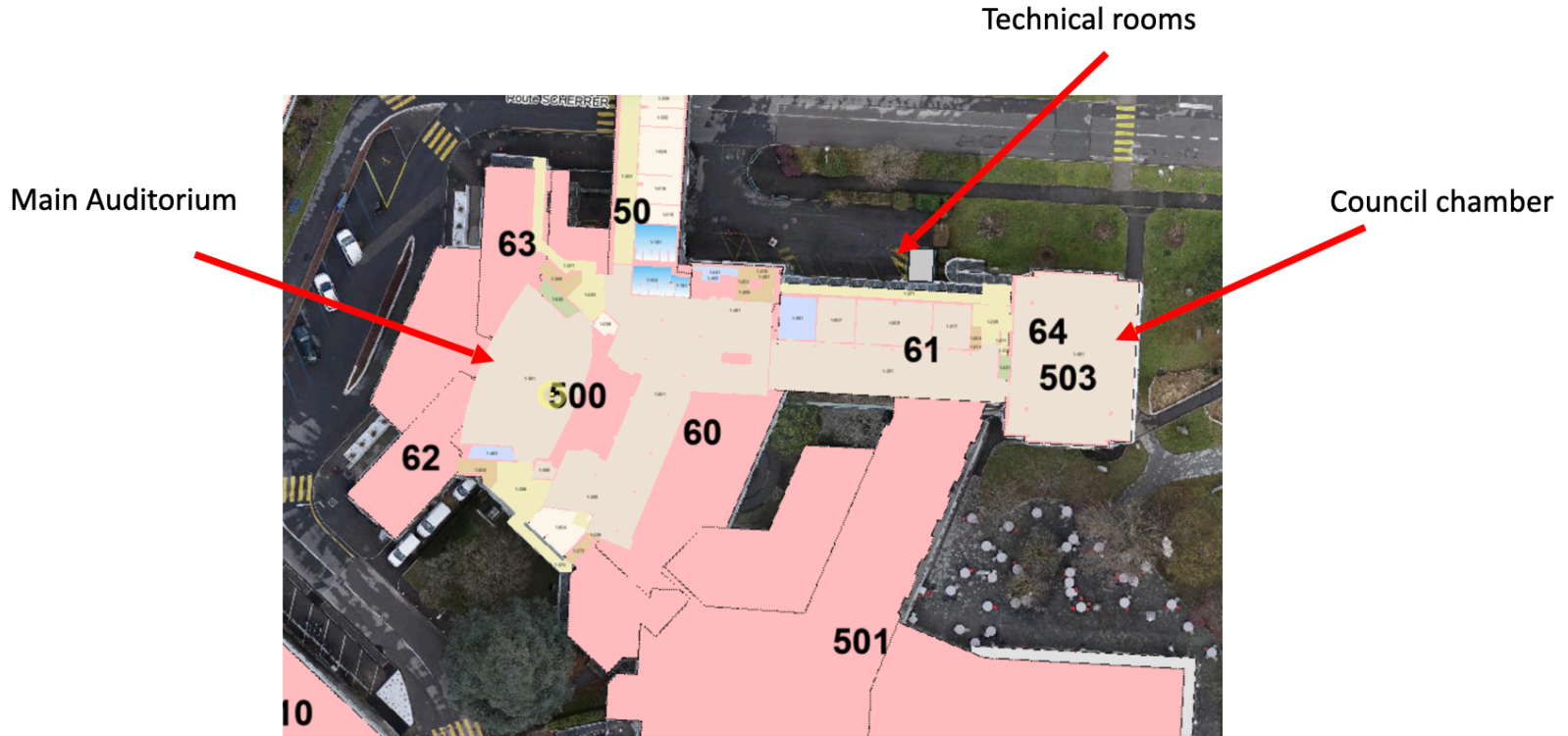


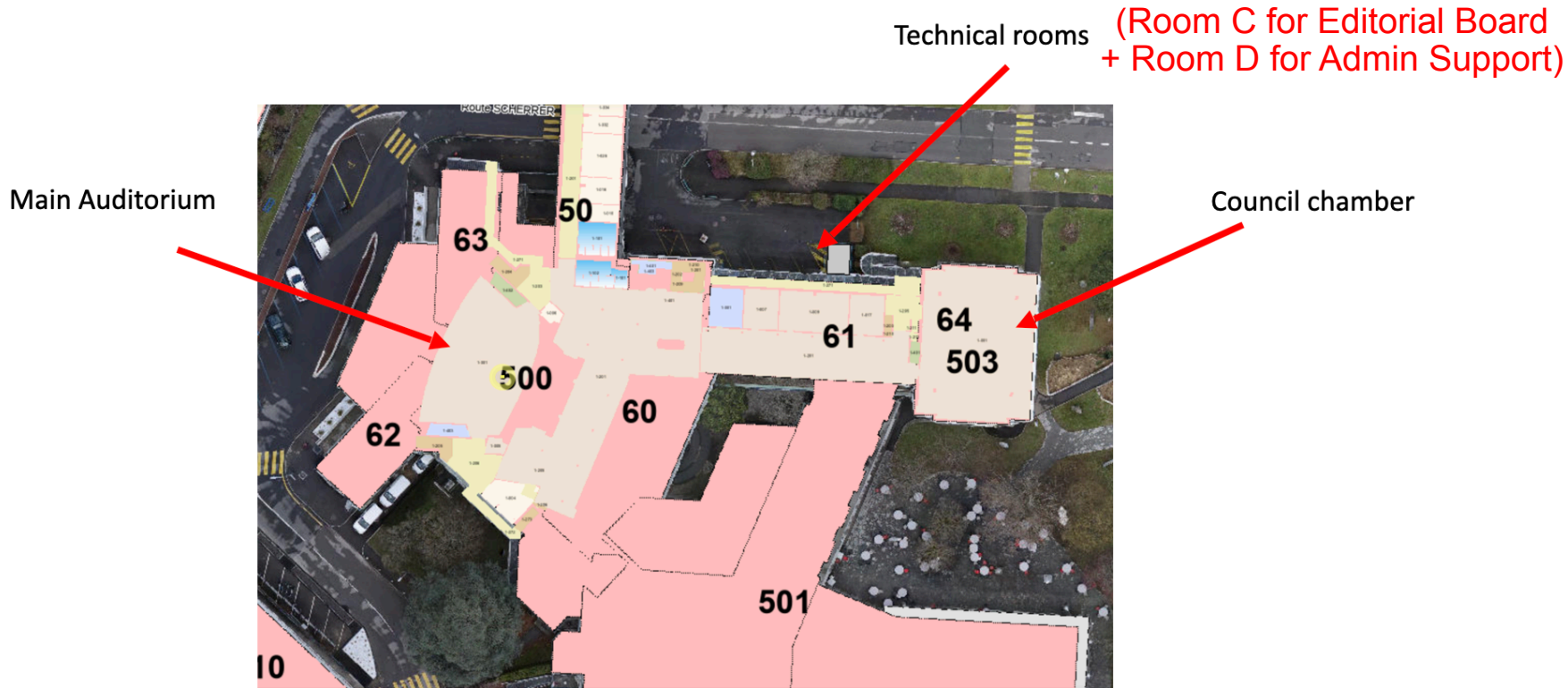
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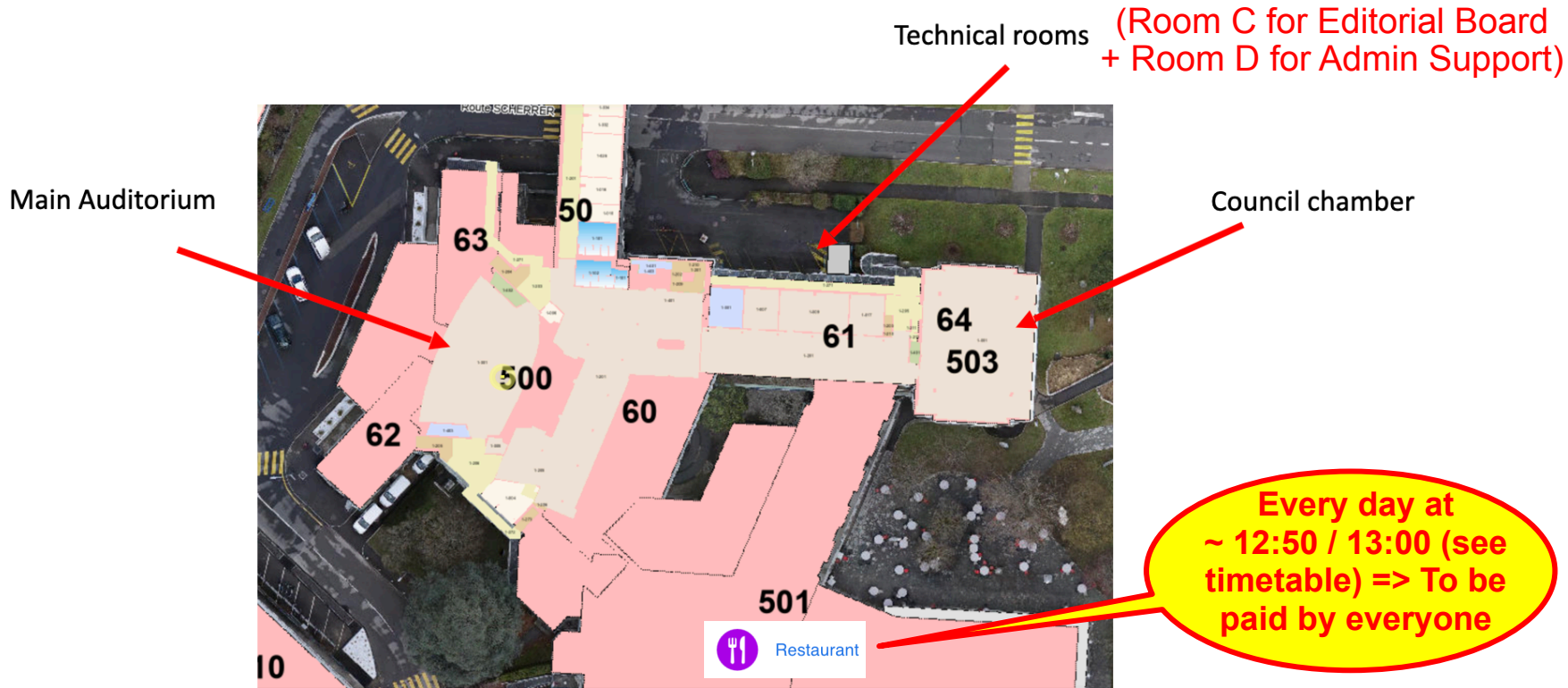
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Main Auditorium
(building 500) =>
~ 10 min walk









Useful info on the Website

(<https://indico.cern.ch/e/HB2023>)



Practical Information

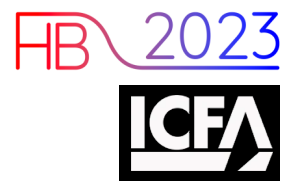
- ┌ How to get there
- ┌ Accommodation
- ┌ Computer account
- ┌ Access cards
- ┌ WIFI

Author Information

- ┌ Abstract submission
- ┌ Paper Preparation
- ┌ Paper Upload and other material
- ┌ Editorial Board support
- ┌ Poster preparation
- ┌ JACoW version of the Workshop Proceedings
- ┌ JINST version of the Workshop Proceedings



The Editorial Board started to work already on Thursday morning



E. Métral and S. Gilardoni, HB2023, CERN, 09/10/2023



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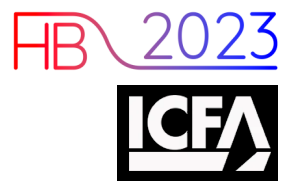
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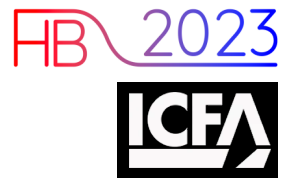
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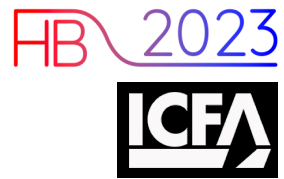
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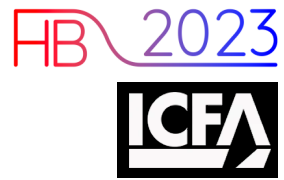
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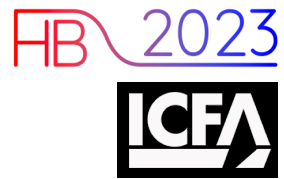
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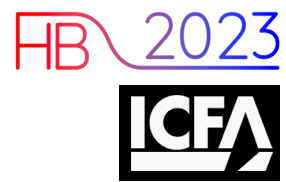
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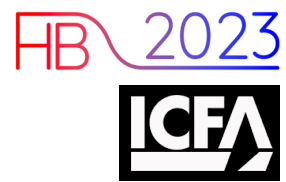
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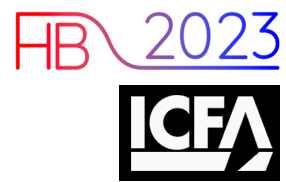
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- ◆ The authors are encouraged to upload slides and posters to SPMS (same link as for abstract and JACoW paper submission)!



Message from the Editorial Board (EB)



- ◆ The EB welcomes the authors during the workshop times
- ◆ The EB office is located in Room C between the Main Auditorium and the Council Chamber
- ◆ Authors are encouraged to get in touch with the EB for any possible issue related with the JACoW papers
- ◆ The EB encourages the submission of the missing contributions for the JACoW proceedings
- ◆ Please, have a look at your emails and at the paper status screen outside of the conference rooms
- ◆ Extended versions of the proceedings can be submitted for peer review to the Journal of Instrumentation (deadline 31st of December 2023)
- ◆ The authors are encouraged to upload slides and posters to SPMS (same link as for abstract and JACoW paper submission)!
- ◆ Speakers are invited to cross-check their slides in advance with the “slide checkers” (from the LOC, see timetable) in Room D during coffee breaks or between 14h00 and 14h20; afterwards the slides shall be uploaded by the speakers to indico



Timetable: Monday

HB 2023



Registration	
500/1-001 - Main Auditorium, CERN	08:00 - 08:30
Welcome	<i>Mike Lamont</i>
500/1-001 - Main Auditorium, CERN	08:40 - 08:50
Opening	<i>Elias Metral et al.</i>
500/1-001 - Main Auditorium, CERN	08:50 - 09:00
Plenaries	<i>Elias Metral, Dr Simone Gilardoni</i>
500/1-001 - Main Auditorium, CERN	09:00 - 10:45
coffee break (group photo taken by the official CERN photographer)	10:45 - 11:05
Plenaries	<i>Elias Metral, Dr Simone Gilardoni</i>
500/1-001 - Main Auditorium, CERN	11:05 - 12:50



Timetable: Monday

HB 2023

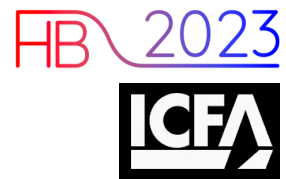


Registration	
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Plenaries <i>Elias Metral, Dr Simone Gilardoni</i>	
500/1-001 - Main Auditorium, CERN	11:05 - 12:50

Plenaries <i>Elias Metral, Dr Simone Gilardoni</i>	
500/1-001 - Main Auditorium, CERN	14:20 - 17:25
stretch-leg break	
500/1-001 - Main Auditorium, CERN	17:25 - 17:35
Seminar <i>Elias Metral, Dr Simone Gilardoni</i>	
500/1-001 - Main Auditorium, CERN	17:35 - 18:35
Welcome Drink	
501/R-001, CERN	18:35 - 20:35



Timetable: Tuesday



WGA - Beam Dynamics in Rings
Giovanni Rumolo, Jean-Luc Vay, WANG Na wangn

500/1-001 - Main Auditorium, CERN 08:55 - 10:45

WGB - Beam Dynamics in Linacs
Frédéric BOULY, Hongwei Zhao, Nicholas Evans

503/1-001 - Council Chamber, CERN 08:55 - 10:45

COFFEE BREAK

500/1-001 - Main Auditorium, CERN 10:45 - 11:05

WGA - Beam Dynamics in Rings
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Timetable: Tuesday

HB 2023



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Frédéric BOULY, Hongwei Zhao, Nicholas Evans

503/1-001 - Council Chamber, CERN 08:55 - 10:45

WGC - Accelerator Systems
Haixin Huang, Pranab Saha, Shinji Machida

503/1-001 - Council Chamber, CERN 14:20 - 16:45

WGD - Operations and Commissioning: WGD - Operations and Commissioning
Mei Bai, Natalia Milas, Sheng Wang

500/1-001 - Main Auditorium, CERN 14:20 - 16:45

COFFEE BREAK
 500/1-001 - Main Auditorium, CERN 10:45 - 11:05

COFFEE BREAK
 500/1-001 - Main Auditorium, CERN 16:45 - 17:05

WGA - Beam Dynamics in Rings
Giovanni Rumolo, Jean-Luc Vay, WANG Na wangn

500/1-001 - Main Auditorium, CERN 11:05 - 12:55

WGB - Beam Dynamics in Linacs
Frédéric BOULY, Hongwei Zhao, Nicholas Evans

503/1-001 - Council Chamber, CERN 11:05 - 12:55

WGC - Accelerator Systems: Joined by WG-A and WG-E
Haixin Huang, Pranab Saha, Shinji Machida

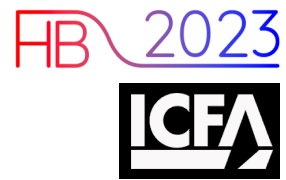
503/1-001 - Council Chamber, CERN 17:05 - 19:00

WGD - Operations and Commissioning: WGD - Operations and Commissioning
Mei Bai, Natalia Milas, Sheng Wang

500/1-001 - Main Auditorium, CERN 17:05 - 19:00



Timetable: Wednesday



WGA - Beam Dynamics in Rings <i>Giovanni Rumolo, Jean-Luc Vay, WANG Na wang</i>	WGE - Beam Instrumentation and Intercepting Devices <i>Kenichirou Satou, Patrick Hurh, Peter Forck</i>
500/1-001 - Main Auditorium, CERN 08:55 - 10:45	503/1-001 - Council Chamber, CERN 08:55 - 10:45
COFFEE BREAK	
500/1-001 - Main Auditorium, CERN 10:45 - 11:05	
WGA - Beam Dynamics in Rings <i>Giovanni Rumolo, Jean-Luc Vay, WANG Na wang</i>	WGE - Beam Instrumentation and Intercepting Devices <i>Kenichirou Satou, Patrick Hurh, Peter Forck</i>
500/1-001 - Main Auditorium, CERN 11:05 - 12:55	503/1-001 - Council Chamber, CERN 11:05 - 12:55



Timetable: Wednesday

HB 2023



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COFFEE BREAK

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COFFEE BREAK

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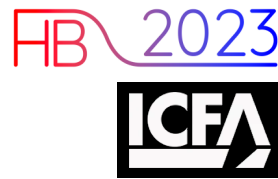


Timetable: Thursday

WGA - Beam Dynamics in Rings <i>Giovanni Rumolo, Jean-Luc Vay, WANG Na wang</i>	WGD - Operations and Commissioning <i>Mei Bai, Natalia Milas, Sheng Wang</i>
500/1-001 - Main Auditorium, CERN 08:50 - 10:45	503/1-001 - Council Chamber, CERN 08:50 - 10:45
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500/1-001 - Main Auditorium, CERN 10:45 - 11:05	
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500/1-001 - Main Auditorium, CERN 11:05 - 13:00	503/1-001 - Council Chamber, CERN 11:05 - 13:00



Timetable: Thursday

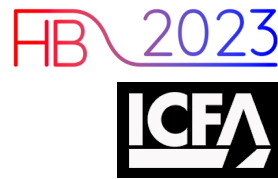


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<small>Flash Presentations</small> <small>Elias Métral, Dr Simone Gilardoni</small>
<small>500/1-001 - Main Auditorium, CERN</small> <small>14:20 - 15:30</small> BREAK to go to Geneva downtown and the BFM => People presenting a poster need to bring it to the BFM and install it there before 17:30
<small>15:30 - 17:30</small>
BFM (poster session during the cocktail + concert + banquet)
<small>17:30 - 23:00</small>



Timetable: Thursday



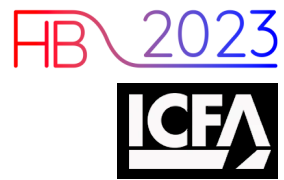
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Posters will need to be removed before leaving the BFM (name of a building in Geneva)



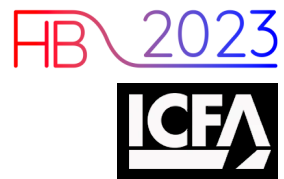
Timetable: Friday



WGD - Operations and Commissioning <i>Mei Bai, Natalia Milas, Sheng Wang</i>	WGE - Beam Instrumentation and Intercepting Devices <i>Kenichirou Satou, Patrick Huh, Peter Forck</i>
500/1-001 - Main Auditorium, CERN 08:50 - 10:45	503/1-001 - Council Chamber, CERN 09:00 - 10:45
COFFEE BREAK 10:45 - 11:05	
Summaries, announcement of HB-2025 and closing <i>Elias Metral, Dr Simone Gilardoni</i>	
500/1-001 - Main Auditorium, CERN	11:05 - 12:50



Timetable: Friday



WGD - Operations and Commissioning

Mei Bai, Natalia Milas, Sheng Wang

500/1-001 - Main Auditorium, CERN

08:50 - 10:45

WGE - Beam Instrumentation and Intercepting Devices

Kenichirou Satou, Patrick Huh, Peter Forck

503/1-001 - Council Chamber, CERN

09:00 - 10:45

COFFEE BREAK

10:45 - 11:05

Summaries, announcement of HB-2025 and closing

Elias Metral, Dr Simone Gilardoni

500/1-001 - Main Auditorium, CERN

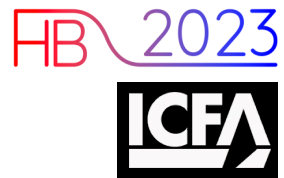
11:05 - 12:50

CERN Visit

14:00 - 17:00



Poster Session, Conference Cocktail and Banquet on Thursday evening



Direct Tram 18 connecting CERN to Bel-Air

- ~ **10 min to walk** from the CERN conference rooms to the CERN Tram Stop.
- ~ **30 min by Tram** from CERN to Bel-Air.
- ~ **10 min to walk** from the Bel-Air Tram Stop to the BFM.
- Schedules for CERN Tram: 15:27, 15:33, 15:44, 15:54, 16:03, 16:12, 16:21, 16:31, 16:40, 16:49, 16:58.
- Schedules from Bel-Air Tram: 23:05, 23:25, 23:44, 00:05 and 00:25.



Poster Session, Conference Cocktail and Banquet on Thursday evening

HB 2023



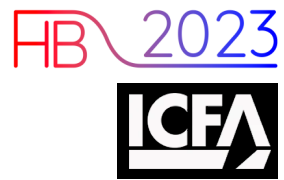
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- ◆ We will provide to all of you a 1-day Tram ticket for Thursday 12/10/23



Poster Session, Conference Cocktail and Banquet on Thursday evening



Direct Tram 18 connecting CERN to Bel-Air

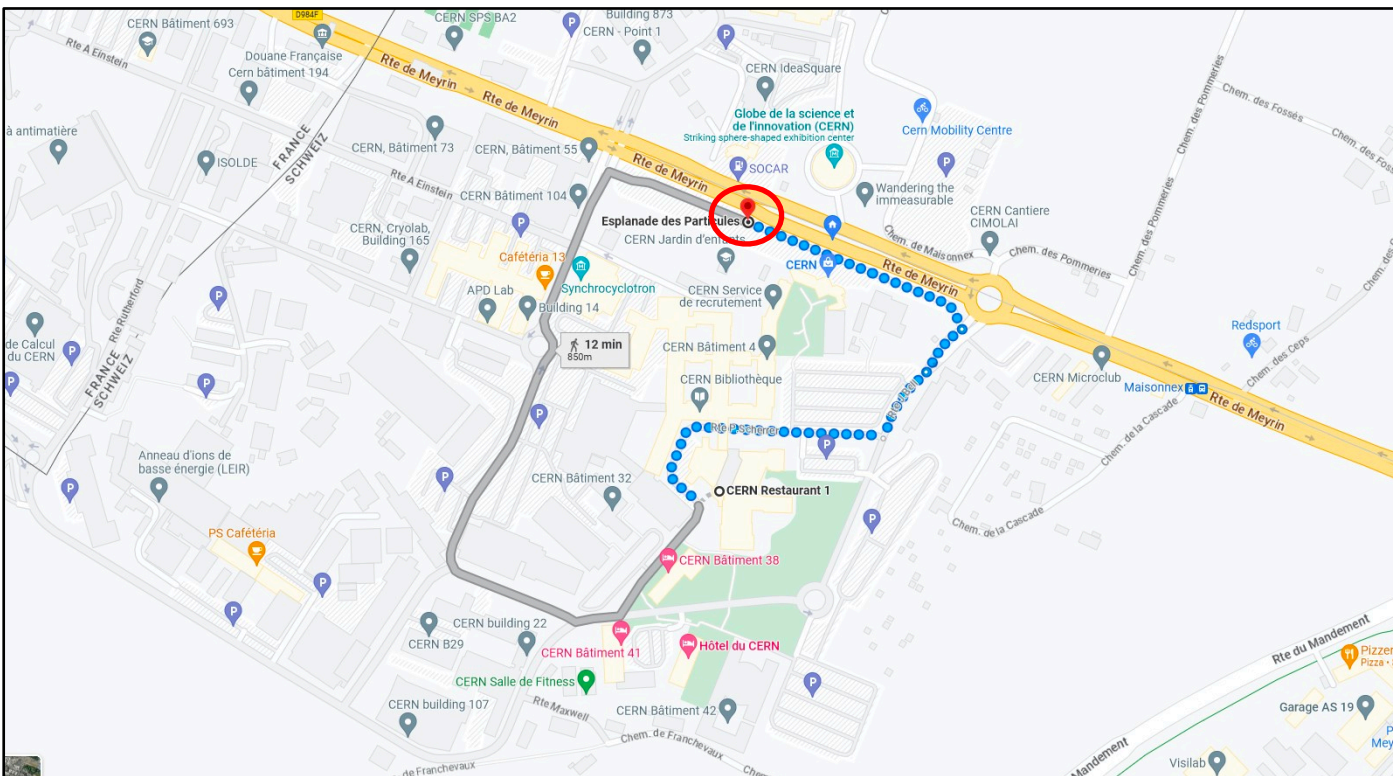
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- ◆ We will provide to all of you a 1-day Tram ticket for Thursday 12/10/23
- ◆ **ACTION 1:** for those who do NOT need a Tram ticket, could you please send an email to hb.2023@cern.ch before 14:30 (today)?



Poster Session, Conference Cocktail and Banquet on Thursday evening

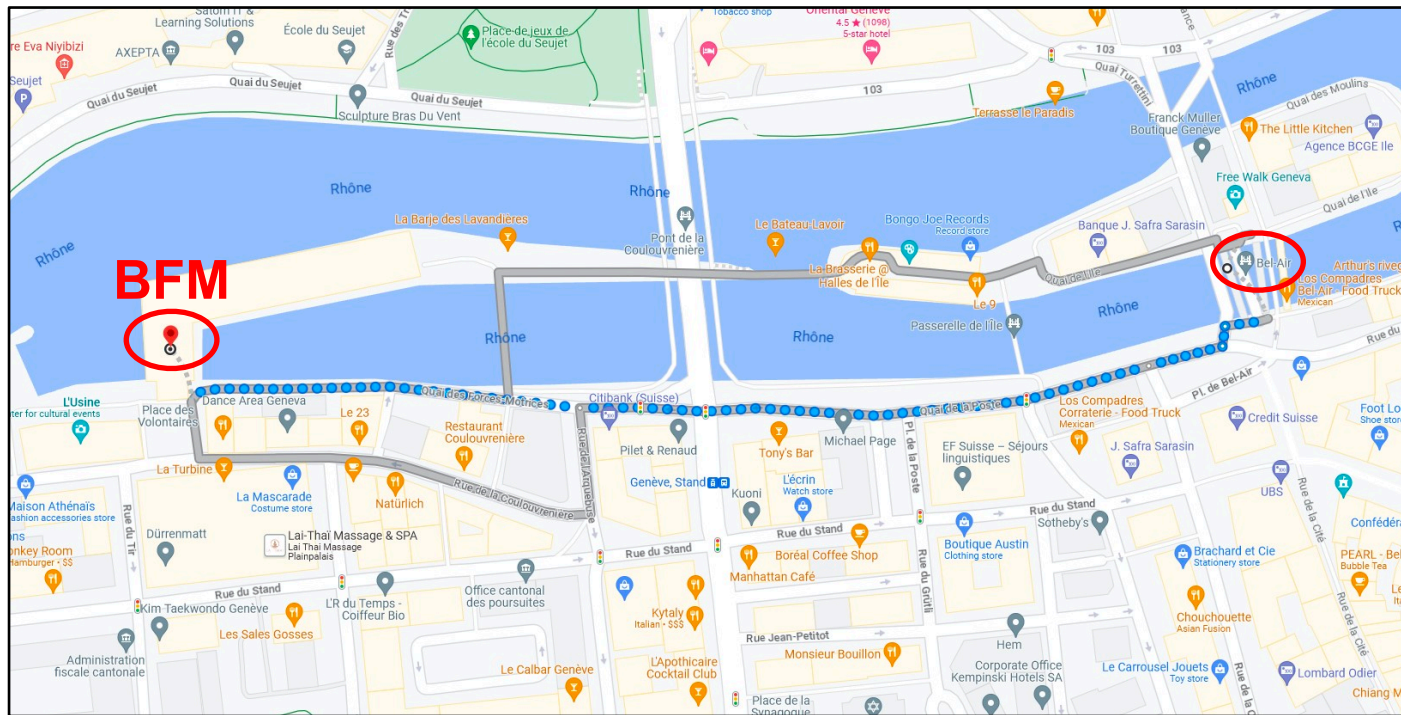
HB 2023





Poster Session, Conference Cocktail and Banquet on Thursday evening

HB 2023





Poster Session, Conference Cocktail and Banquet on Thursday evening

HB 2023



BFM





Poster Session, Conference Cocktail and Banquet on Thursday evening

HB 2023





CERN Visit on Friday afternoon

- ◆ 4 visits organised (2 in // as 120 people signed for the CERN visit)
 - * Group 1: AD + DCVP
 - * Group 2: SC + ATLAS



CERN Visit on Friday afternoon

- ◆ 4 visits organised (2 in // as 120 people signed for the CERN visit)
 - * Group 1: AD + DCVP
 - * Group 2: SC + ATLAS
- ◆ *Important: due to AD being a supervised area, it is extremely important to know about accessibility details (pregnant woman, kids below 16 and reduced mobility) => Visitors falling into these categories will need to be in Group 2 (SC+ATLAS). Furthermore, closed and flat shoes are needed*



CERN Visit on Friday afternoon

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 - * Group 1: AD + DCVP
 - * Group 2: SC + ATLAS
- ◆ *Important: due to AD being a supervised area, it is extremely important to know about accessibility details (pregnant woman, kids below 16 and reduced mobility) => Visitors falling into these categories will need to be in Group 2 (SC+ATLAS). Furthermore, closed and flat shoes are needed*
- ◆ **ACTION 2: for those who do NOT plan to come anymore OR need to be in Group 2, could you please send an email to hb.2023@cern.ch before Wednesday 11/10/23@12:00? (such that we can provide the exact final numbers to the CERN Visits Service)**



**MANY THANKS
FOR YOUR ATTENTION
& WE WISH YOU AN
EXCELLENT HB 2023
WORKSHOP**

=> Looking forward for exciting and inspiring discussions!