

Welcome to the ICFA mini workshop on Beam-Beam effects in Circular Colliders!

T. Pieloni (EPFL), L. Rivkin (CHART-PSI), X. Buffat(CERN)

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Welcome to EPFL!

A little bit about EPFL

- Funded in 1969 with the mission to “train talented engineers in Switzerland”
- A yearly increasing population of 18’000, including 13’400 students
- More than 130 nationalities (57% of foreign students)
- 29 Masters’ and 22 PhD degrees available
- 428 laboratories and chairs
- 4’260 scientific publications in 2023

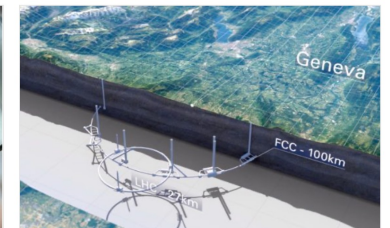


Laboratory of Particle Accelerator Physics

- Small team mainly involved in beam dynamics studies for the FCC: simulation models and experimental studies. But also LHC, HL-LHC, SLS2, Plasma Acceleration and much more.
- New laboratory with 2MeV H^- RFQ + FODO cell under development to train students during laboratories for High Energy and Accelerator Physics classes
- 2 Courses Introduction and Advanced Accelerator Physics, Laboratory experiences and Master Thesis
- 1 Professor, 1 Senior Scientist, 3 post-doc, ~15 PhD Students and ~2-3/year Master Students, ~2-4/year laboratory students



Introduction to particles accelerators PHYS-448



Advanced Concept in Accelerator Physics PHYS-751

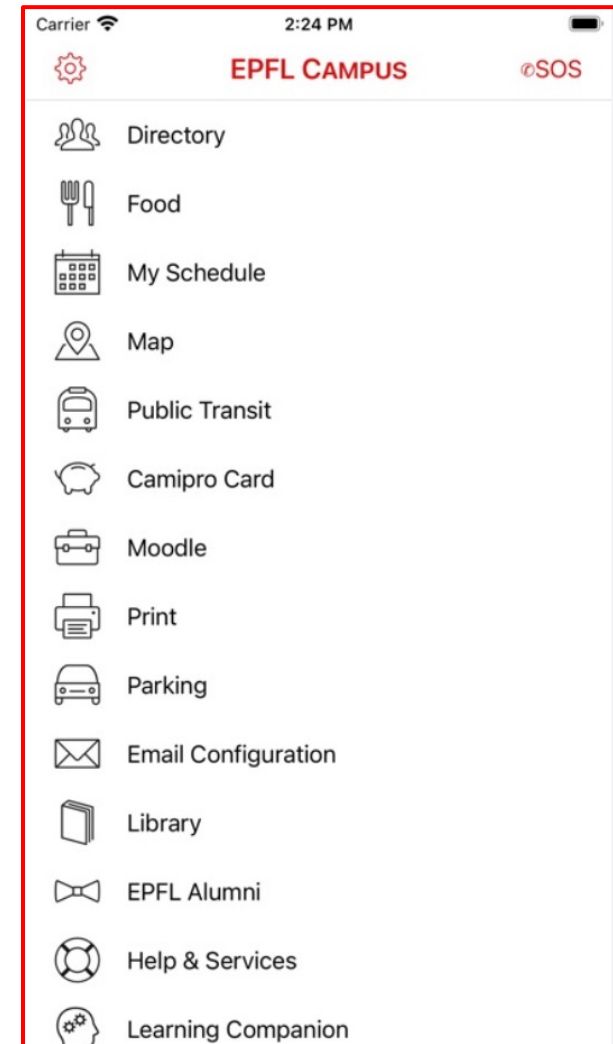
Campus life

- 125 buildings
- 34 restauration points
- EPFL Innovation Park : 152 companies present including 107 startups
- Host of the biggest student festival in Europe



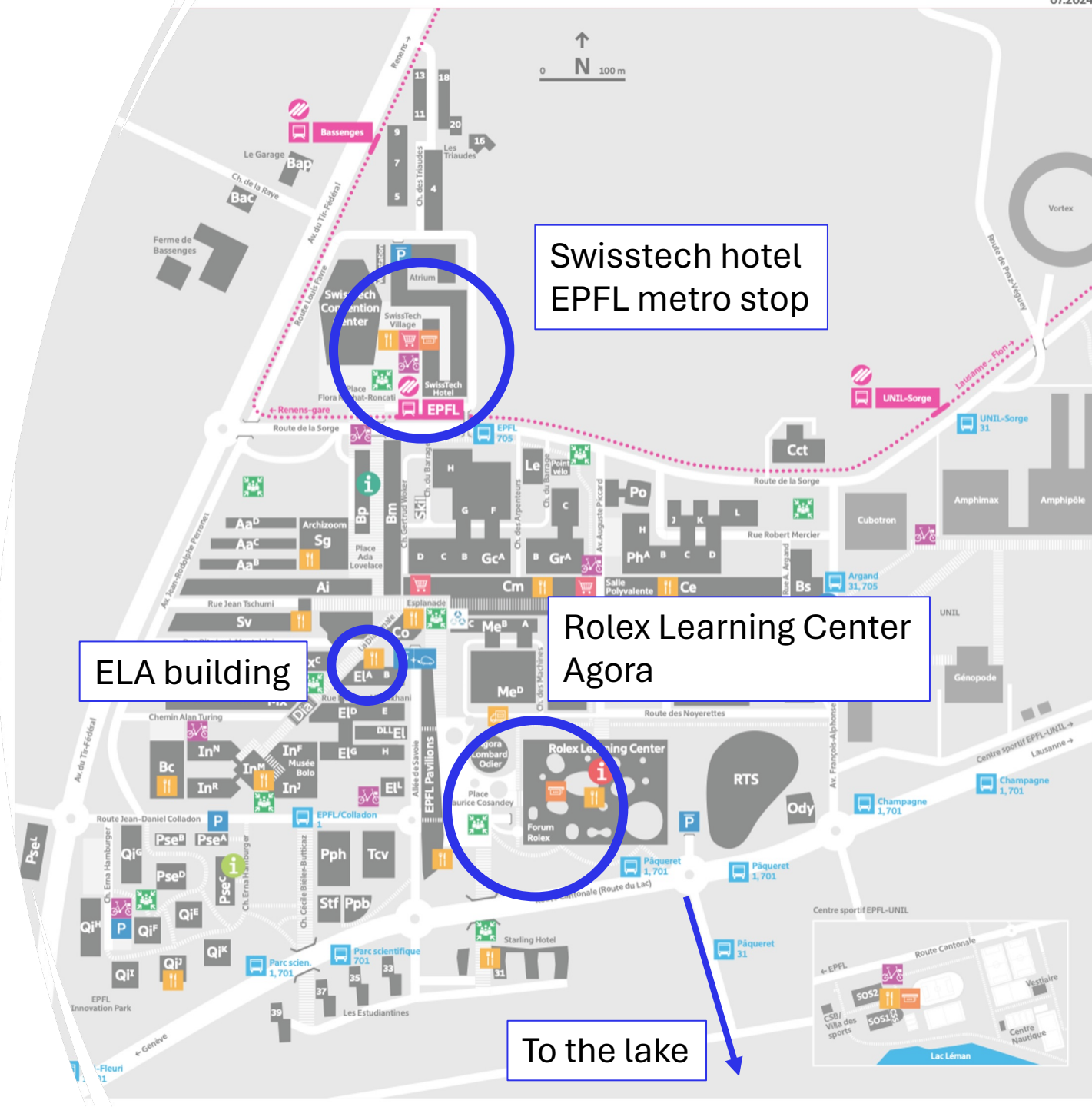
A guide to get around...

- EPFL Campus app
 - Find out about food options and access to the different restaurants / food trucks on campus
 - Use the map to find your way



Things to do around EPFL

- Go to Agora to have lunch with a view
- Go for a walk and swim to the Lac Léman
 - plage du Pélican
 - plage de Vidy



Visiting Lausanne

- Take the metro from EPFL (15 minutes to **Flon** lively part of the city!)
- Cathedral
- Esplanade de Montbenon (parc with a view)
- Olympic museum
- Vidy-Ouchy lakeside walk



Workshop overview



- Important moment to gather expertises on colliders also in view of the very peculiar moment with operational, under construction



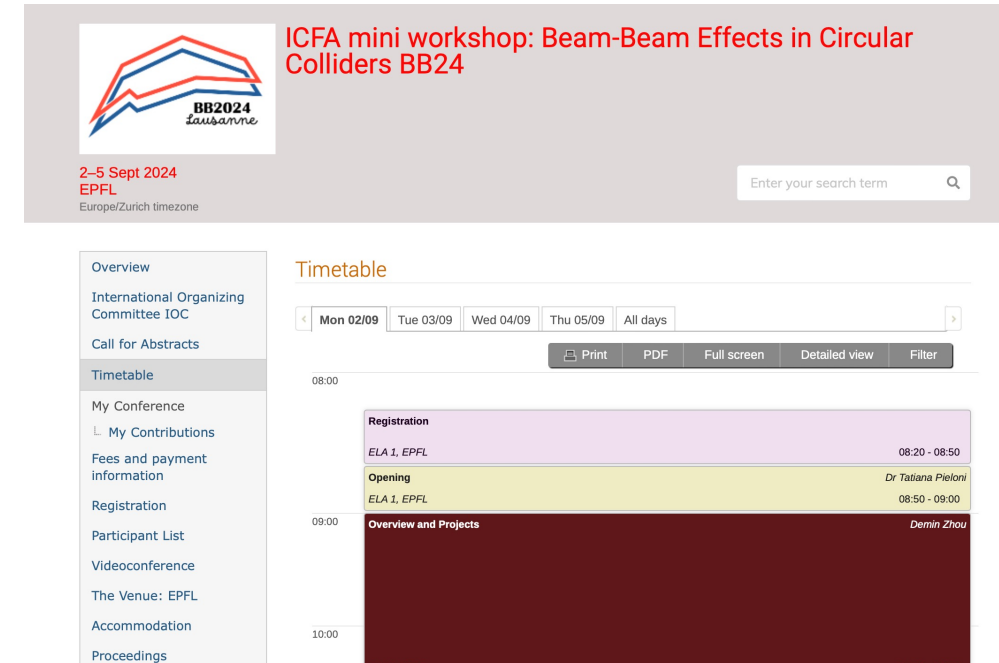
- Sponsors and logo

- Photo on Wednesday at 12:35 at the EPFL Agora'



Workshop program

- Timetable very dense organized in sessions with several discussion breaks:
 - Overviews and Collider projects: operational under design
 - Single Particle Effects
 - Coherent Effects
 - Luminosity and beam distribution
 - Codes
 - Accelerator design
 - General Summary and Outlook (ends Thursday at 16:30)
- Closing session by K. Oide and J. Wenninger: highlight advancements, open questions and inspire future developments
- Please, draft version of talks should be uploaded a head of time to organize discussions!!
- Proceedings details at the closing. Deadline 15th Nov 2024.



ICFA mini workshop: Beam-Beam Effects in Circular Colliders BB24

2-5 Sept 2024
EPFL
Europe/Zurich timezone

Enter your search term

Overview
International Organizing Committee IOC
Call for Abstracts
Timetable
My Conference
My Contributions
Fees and payment information
Registration
Participant List
Videoconference
The Venue: EPFL
Accommodation
Proceedings

Timetable

Mon 02/09 Tue 03/09 Wed 04/09 Thu 05/09 All days

Print PDF Full screen Detailed view Filter

08:00

Registration
ELA 1, EPFL 08:20 - 08:50

Opening
ELA 1, EPFL 08:50 - 09:00
Dr Tatiana Pieloni

09:00

Overview and Projects
Demin Zhou

10:00

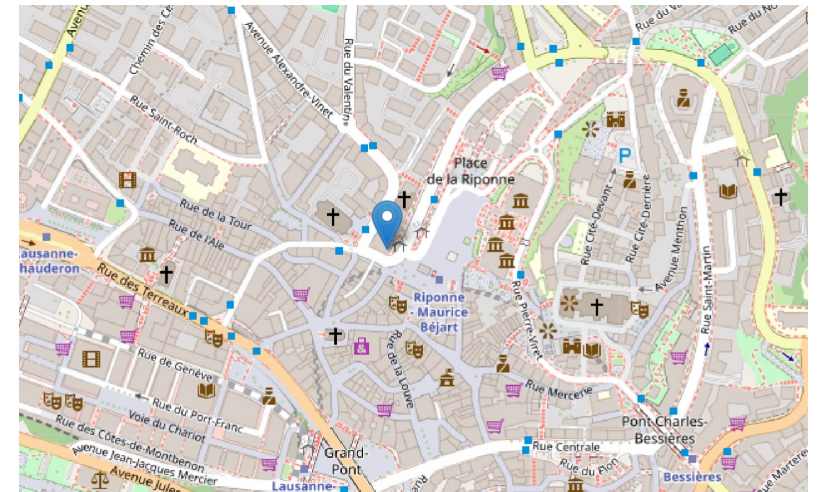
Workshop: social events

- Event Dinner at 19:00 directly at the location (city center)
- Outing by Bus Wednesday afternoon 14:00 – 18:00
Walk in the vineyards + Wine experience and tasting

Lavaux Vineyards UNESCO heritage



Le Vaudois Lausanne



Contact details

- Xavier +41227663591 and Tatiana +41216934861 in case of problems.
- Adm bb24@epfl.ch Esther Hofmann and Corinne Cramer

We wish you a productive workshop full of discussions and quality time at EPFL!