

# QCD@LHC2024

7 – 11 October 2024, Freiburg / Germany

- Perturbative and resummed predictions
- Parton showers and event generators
- Parton distribution functions
- Soft interactions, non-perturbative QCD
- Higgs, electroweak and BSM physics
- Heavy quarks (including top and flavour physics)

## International Advisory Committee

Sergey Alekhin (DESY)  
Johannes Blümlein (DESY)  
Claude Duhr (Bonn)  
Keith Ellis (Durham)  
Thomas Gehrmann (Zürich)  
Nigel Glover (Durham)  
Joey Huston (Michigan State)  
Judith Katzy (DESY)  
Frank Krauss (Durham)  
Jean-Philippe Lansberg (Orsay)  
Fabjo Maltoni (Louvain)  
Michelangelo Mangano (CERN)  
Zoltan Nagy (DESY)  
Eran Sela Rizvi (QMUL)  
Frank Siegert (Dresden)  
Dominik Stockinger (Dresden)  
Zoltan Trocsanyi (Budapest)  
Doreen Wackerroth (Buffalo)  
Ciaran Williams (Buffalo)

## Local Organisers

Stefan Dittmaier  
Karl Jakobs  
Heidi Rzehak  
Markus Schumacher  
Maximilian Stahlhofen  
Christian Weiser  
Christina Skorek (Secr.)  
Susanne Trauth (Secr.)



<https://indico.cern.ch/e/qcdatlhc2024>

universität freiburg



Stefan Dittmaier  
universität freiburg





# Venue

physics highrise  
("Physikhochhaus")

↔ rooms HS1 + HS2  
for parallel sessions

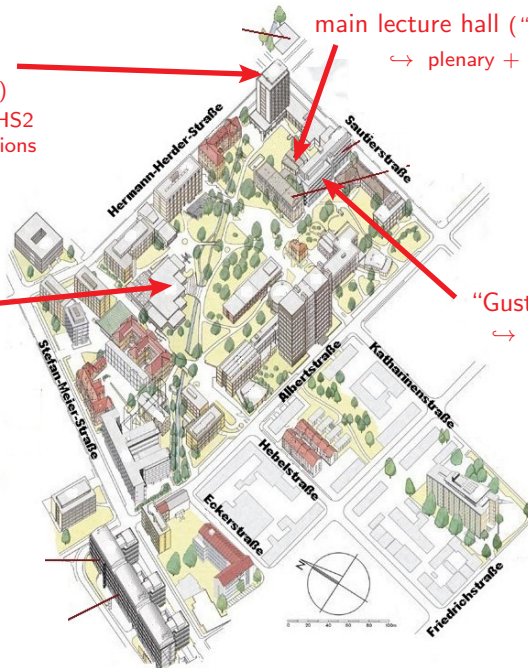
main lecture hall ("Großer Hörsaal")

↔ plenary + parallel sessions

mensa

"Gustav-Mie-Haus"

↔ coffee breaks



# Scientific programme

**QCD** is everywhere @LHC

⇒ broad programme of parallel sessions:

## **Perturbative and resummed predictions in QCD**

*Ben Page, Johannes Michel, Stefano Camarda, Vieri Candelise*

## **Parton showers and event generators**

*Ana Rosario Cueto Gomez, Christian Preuss, Melissa Corona van Beekveld, Saptarna Bhattacharya*

## **PDFs**

*Eimear Isobel Conroy, Kay Schönwald, Simone Amoroso, Yong Zhao*

## **Soft interactions, non-perturbative QCD**

*Lydia Audrey Beresford, Michael Pitt, Stefan Gieseke, Tuomas Lappi*

## **Higgs, EW, BSM physics**

*Eleni Vryonidou, Mathieu Pellen, Roberto Covarelli, Tatsuya Masubuchi*

## **Heavy quarks**

*Baptiste Ravina, Gilberto Tetlalmatzi-Xolocotzi, Lorenzo Capriotti, Ruilin Zhu*

Schedule:            9:00 – 10:30 **plenary session**  
                          10:30 – 11:00 coffee break  
                          11:00 – 12:30 **plenary session**  
                          12:30 – 14:00 lunch break  
                          14:00 – 15:30 **parallel sessions** / excursion  
                          15:30 – 16:00 coffee break  
                          16:00 – 17:30 **parallel sessions** / excursion

# Excursions (Wednesday afternoon)

## Option 1 – Guided tour of Freiburg

15:00 participants meet outside main lecture hall

15:30 start of the tour at “Rathausplatz”

Participants pay at registration.

## Option 2 – Hiking tour in the Black Forest around lake Titisee

14:00 participants meet outside main lecture hall

14:40 local train S10 from Freiburg main station (Hbf) to “Titisee”

15:19 walk around the lake Titisee ( $\sim 7$ km),

subsequent “refreshments” somewhere at Titisee

18:09 train S1 back to Freiburg main station (Hbf)

A group ticket will be organized to save costs; money collected by your guide.

If you leave the group you have to buy own tickets ( $\sim 6$ € single fare).

## Option 3 – Short hike to and visit of Breisach wine cellars

14:15 participants meet outside main lecture hall

14:25 start the walk to Freiburg Main Station (Hbf)

15:02 local train S1 (to Breisach) from platform 6

15:26 arrival in Breisach, 25min walk to wine cellar

16:00 wine tasting with option to buy local wines

18:00 walk back to Breisach train station

19:00 return to Freiburg main station

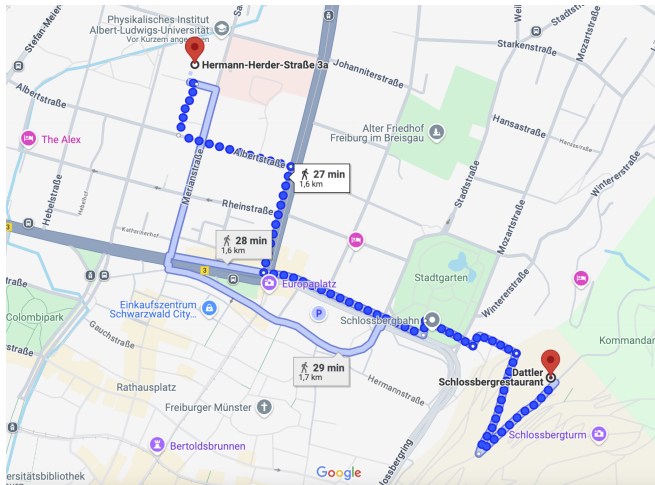
Tour guided by Uli Parzefall who takes care of train + wine tickets and collects the money from the participants



# Conference dinner (Thursday evening)

Restaurant DATTLER (<https://dattler.de/>)

↪ you may walk up there (access by car possible as well, but takes quiet a loop way)



... but the last part is quite steep

↪ option of a cable car (fare of 4.50€, ask secretaries until Tuesday)

## Other information

- ▶ WIFI: eduroam
- ▶ Video:
  - ▶ no broadcast of talks to outside world
  - ▶ a few talks imported via zoom
- ▶ Coffee breaks: ground floor of “Gustav-Mie-Haus”  
(opposite to main lecture hall)
- ▶ Lunch options:
  - ▶ nearby restaurants, snack bars, takeaway options → [google](#)
  - ▶ city centre in walking distance as well
  - ▶ mensa: get a Mensa Card at the Service Point of the mensa
- ▶ Dinner options:
  - ▶ plenty of nice restaurant downtown in walking distance → [google](#)

# Enjoy your time in Freiburg!

... German's capital of sunshine

