We welcome you to Week 1 of

Lattice@  2024

The goal of this workshop is the **exchange and discussion of ideas**.

Mattia Dalla Brida, Michele Della Morte, Matteo Di Carlo, Felix Erben, Elvira Gamiz, Andreas Jüttner, Simon Kuberski, Amy Nicholson, Agostino Patella, J. Tobias Tsang.

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Physics

Topic: **Inverse Problems**

- Occur in many different areas
- 11 Talks (45+15)
- 6 *formal* discussions (1h)
- Time table on indico

\+ TH-Colloquium (Wed.2pm)

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Social events

- *Informal* discussions, a.k.a. coffee breaks (outside main auditorium, a.k.a. Mezzanine)
- Reception (today 6-7pm) in R1
- Workshop dinner (Thursday) at La Bourse (easily accessible by tram)

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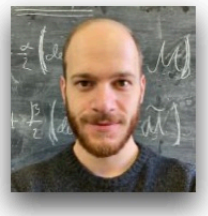
CERN TH Lattice group



Matteo Di Carlo

Felix Erben

Jacob Finkenrath

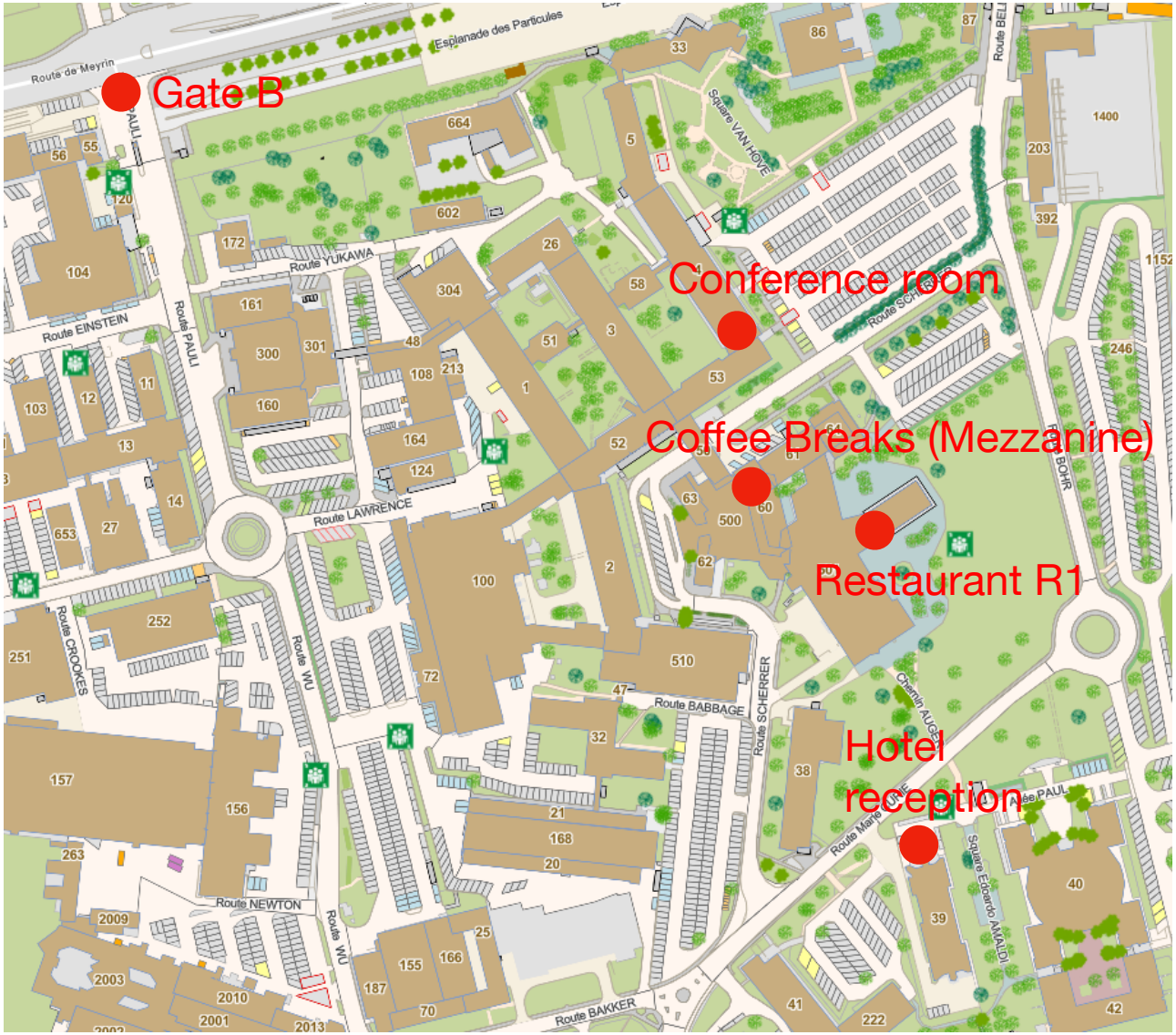
Andreas Jüttner

Simon Kuberski

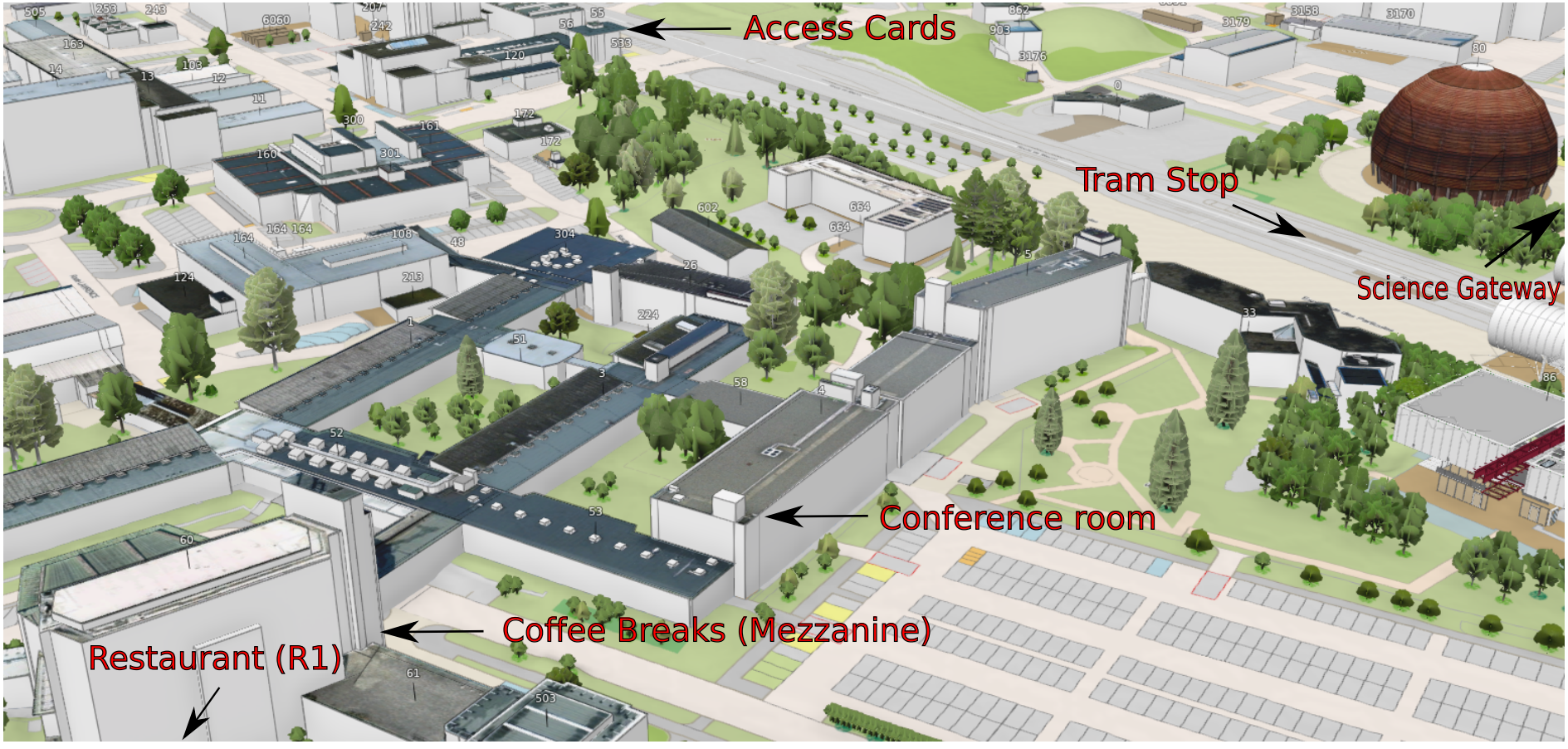
Tobi Tsang

Associate
Alexei Bazavov

Getting around CERN



Getting around CERN



Let's start the programme!

Monday, 8 July 2024	Tuesday, 9 July 2024	Wednesday, 10 July 2024	Thursday, 11 July 2024	Friday, 12 July 2024
	09:30 Gaussian Processes	09:30 Applications to electroweak processes	09:30 Inclusive decays from a continuum point of view	09:30 Bayesian Interpretation of Backus Gilbert methods
10:00 Registration and Coffee	10:30 Coffee break	10:30 Coffee break	10:30 Coffee break	10:30 Coffee break
11:25 Welcome	11:30 Discussion	11:30 Extraction of scattering amplitudes from infinite volume Euclidean	11:30 Towards inclusive semileptonic decays from lattice QCD	11:30 Physics applications of smeared spectral functions
11:30 Inverse problems for non-equilibrium QCD				
12:30 Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch	12:30 Lunch
14:00 Smeared R-ratio and applications to g-2	14:00 Global PDF analyses and precision physics	14:00 TH-Colloquium (Hearing the forest for the trees: understanding LIGO/	14:00 Inclusive decays: synergies between lattice and continuum?	14:00 Systematic effects in uses of reconstruction methods
15:00 Coffee break	15:00 Coffee break	15:00 Coffee break	15:00 Coffee break	15:00 Closing and Departure
16:00 How can the lattice contribute to PDFs?	16:00 PDFs - new methods, synergies, cross checks	16:00 Discussion about R-ratio on the lattice and relevance for g-2	16:00 Discussion	