

Parton Showers and Resummation

Simon Plätzer

Institute of Physics — NAWI, University of Graz

Particle Physics — University of Vienna

At the

Parton Showers and Resummation Workshop

Graz | 2 July 2024

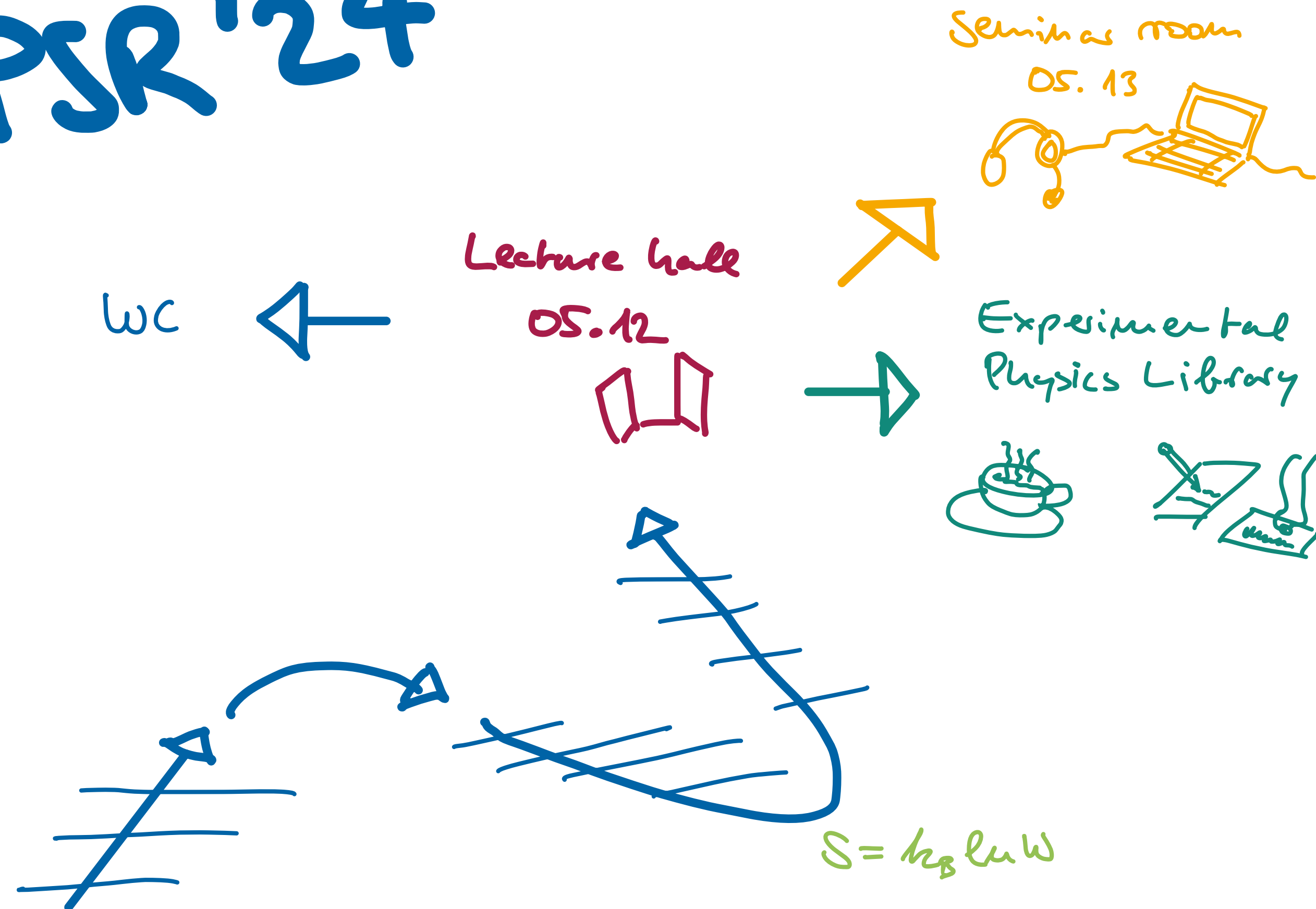
2nd post-pandemic PSR in person — happy to host this in Graz and to have you here.

All relevant information and program is on CERN indico, please upload your slides as PDF in advance.

Plenty of time is also reserved for discussion.

WiFi — eduroam should work just fine, if not ask at registration desk for a guest account.

PSR '24



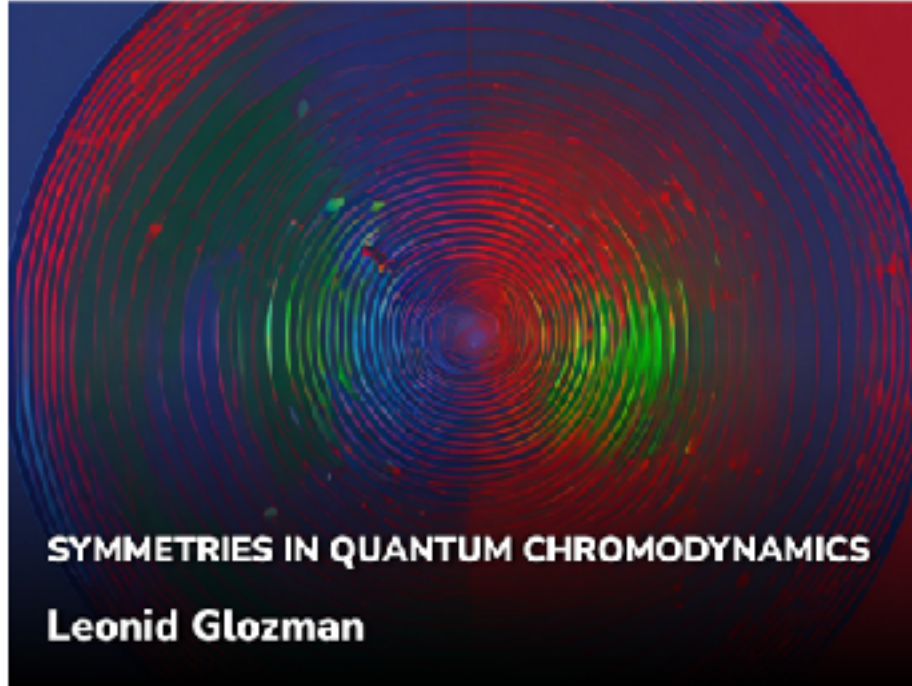
Welcome to Graz



STRONGLY INTERACTING FIELDS
Reinhard Alkofer



QUARKS, HADRONS AND NUCLEI
Gernot Eichmann

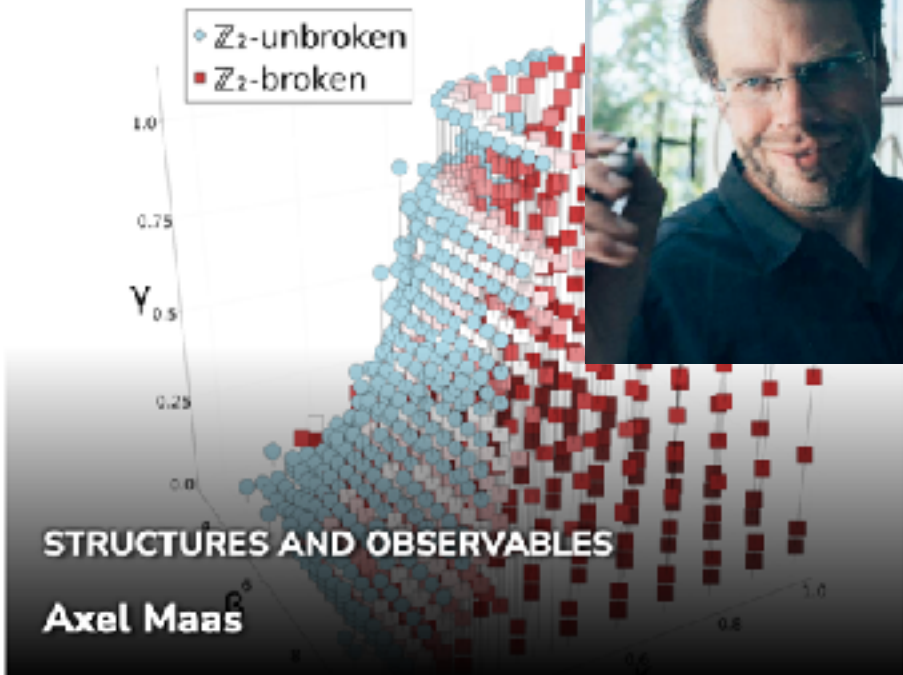



SYMMETRIES IN QUANTUM CHROMODYNAMICS
Leonid Glozman



EVENT GENERATORS AND RESUMMATION
Simon Plätzer

More at: particle.uni-graz.at



STRUCTURES AND OBSERVABLES
Axel Maas



THE PHASES OF NUCLEAR MATTER
Denes Sexty



BEYOND THE STANDARD MODEL
Suchita Kulkarni

+ Christof Gatttringer — on leave as president of the FWF

Will house TU Graz und University of Graz Physics Departments

- New structure in University landscape
- Eight clusters — among them theoretical physics
- Next to old physic building
- Significant lab, office and lecture hall space, ideal also for big conferences
- Move-in completed ~ 2030

Will house TU Graz und University of Graz Physics Departments

- New structure in University landscape
- Eight clusters — among them theoretical physics
- Next to old physic building
- Significant lab, office and lecture hall space, ideal also for big conferences
- Move-in completed ~ 2030



Will house TU Graz und University of Graz Physics Departments

- New structure in University landscape
- Eight clusters — among them theoretical physics
- Next to old physic building
- Significant lab, office and lecture hall space, ideal also for big conferences
- Move-in completed ~ 2030



Social activities



Many lunch opportunities around the department.

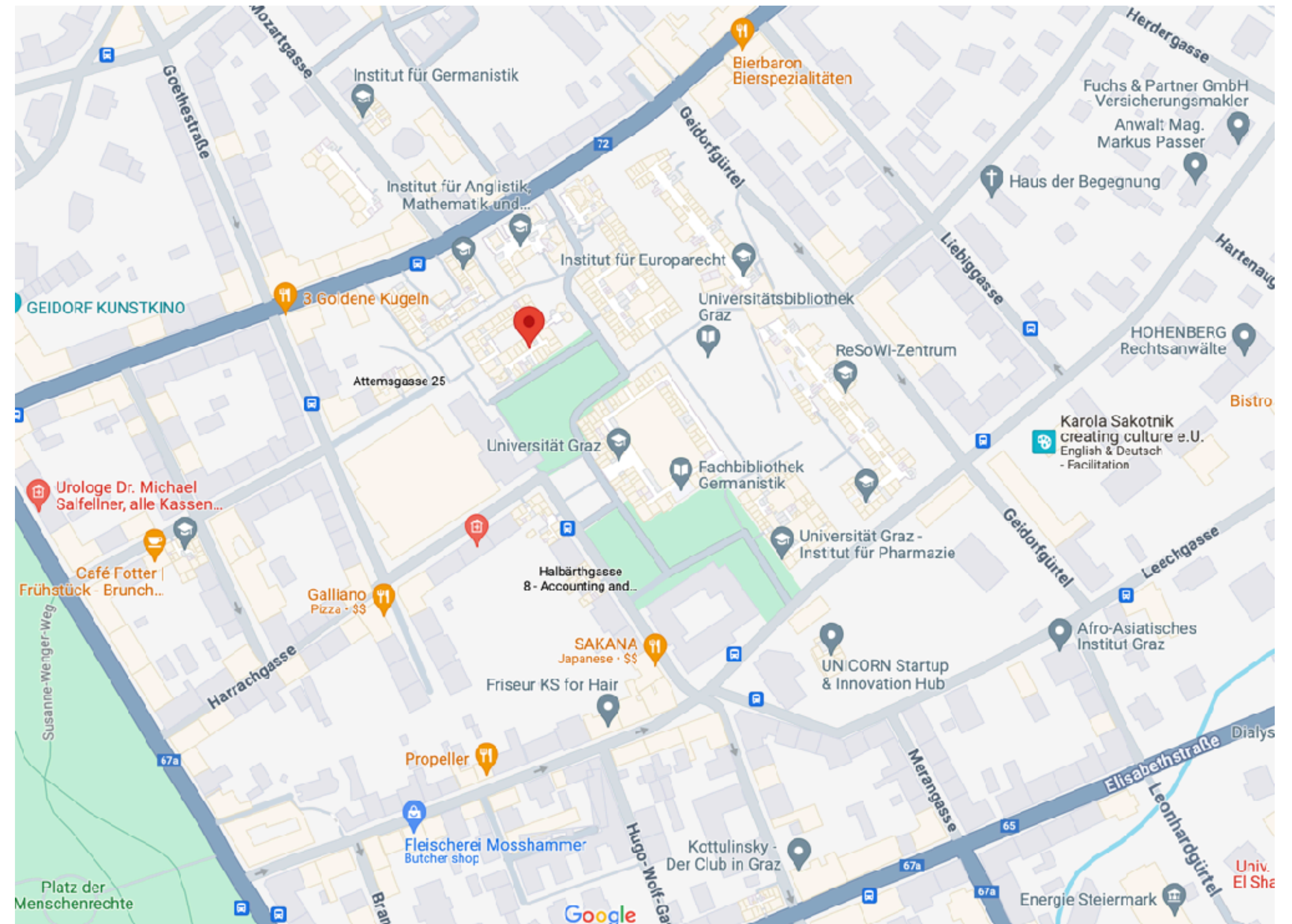
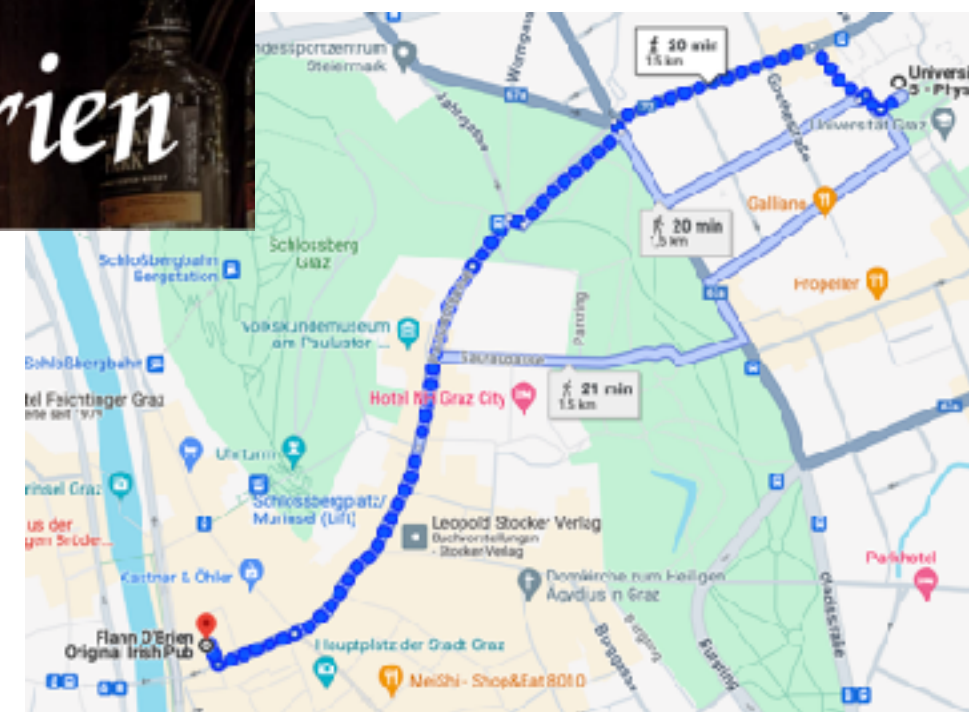
Famous:
Bausatz-Lokale



Football tonight



Seems to be full
but worth a try.

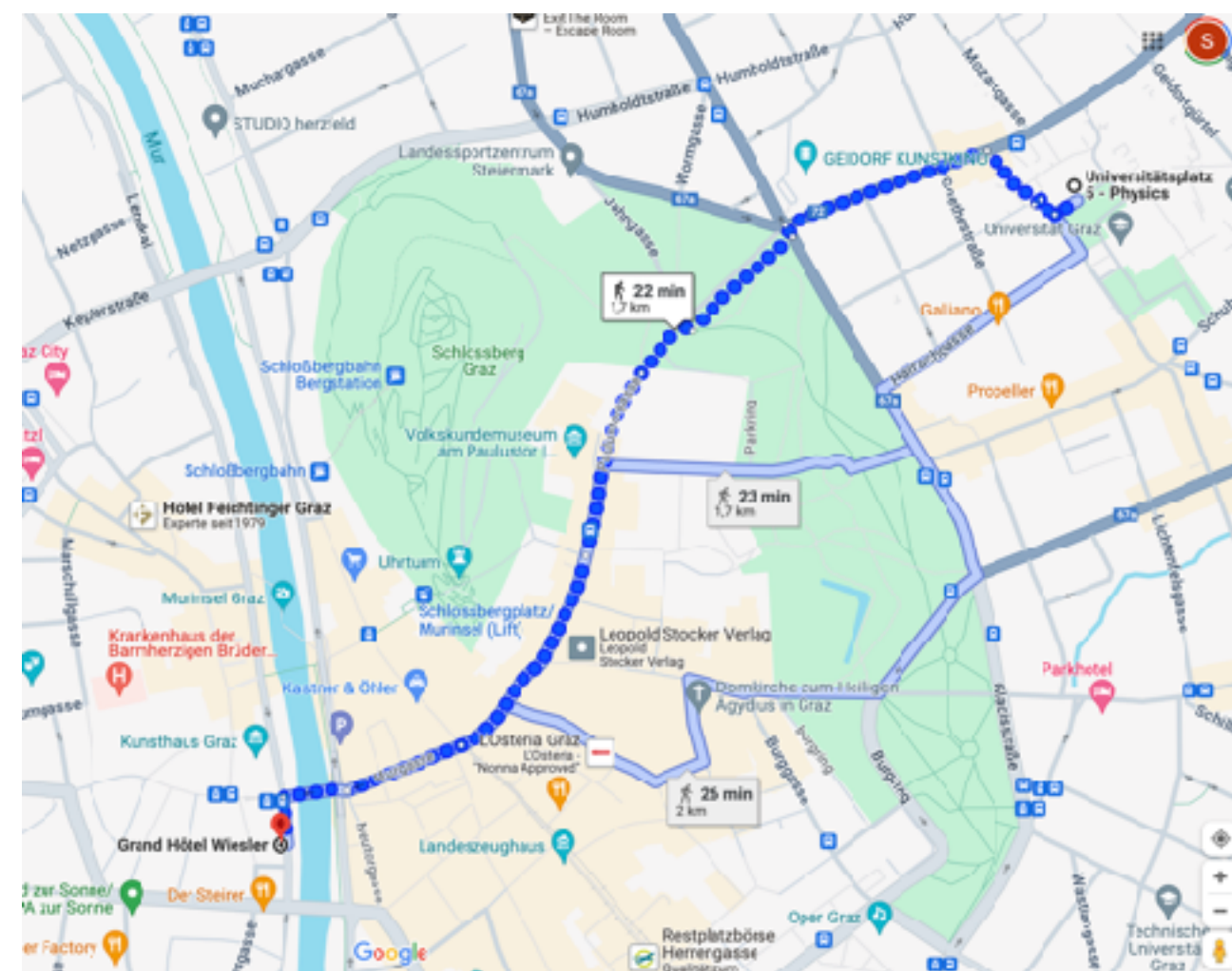
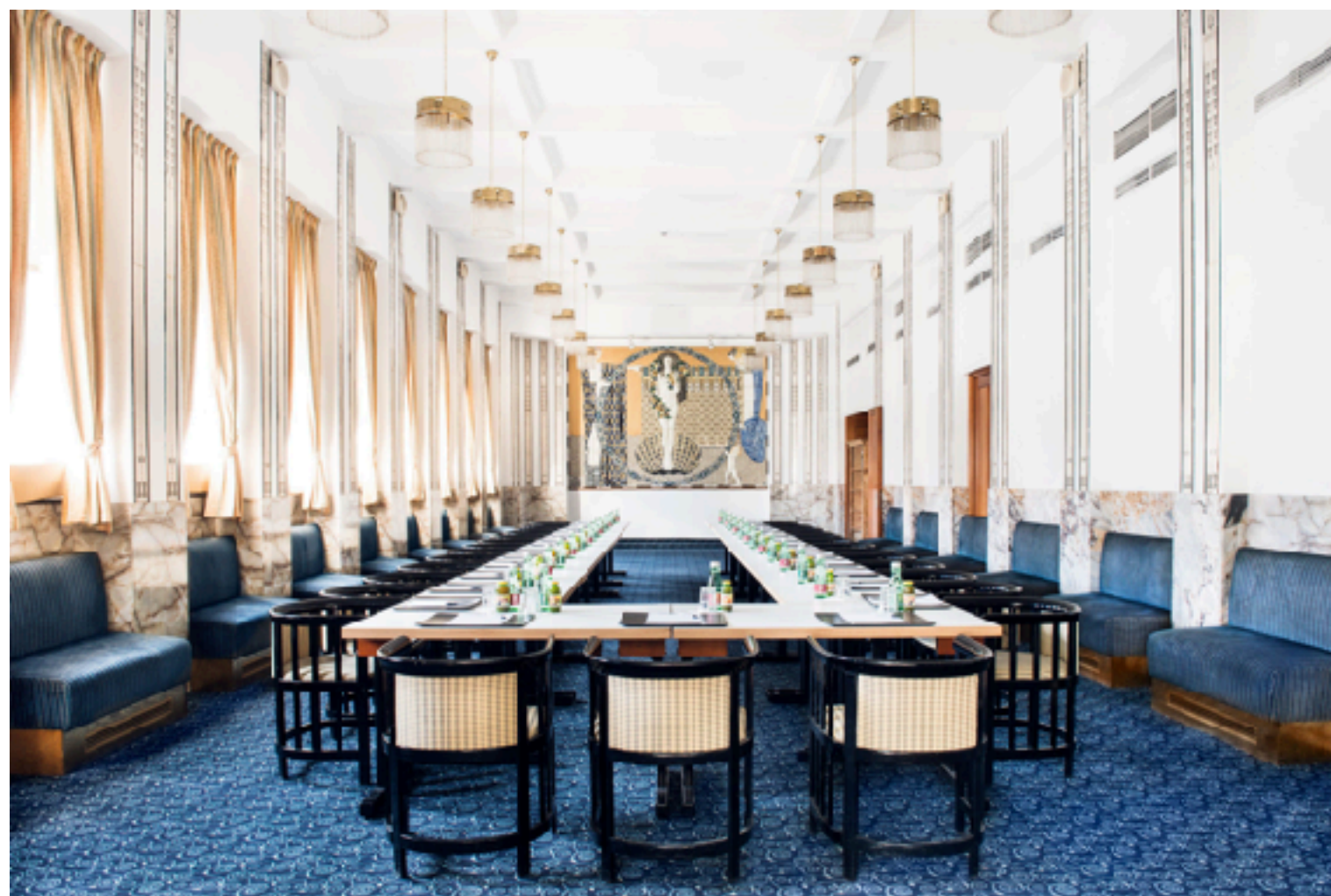


Workshop dinner



Dinner with reception at Grand Hotel Wiesler.
Iconic Art Deco hotel, one of the city's famous addresses —
Wednesday at 7:15 pm.

Guided city tour (old town and courtyards):
leave **Wednesday 4:30 pm** in front of the institute.



For anything else please don't
hesitate to ask us for suggestions.

There's a lot of fun and
interesting things to do in town.

Input for Friday & some advertisement



Informal discussions, no fixed programme yet: talks and triggers are welcome.

Please let us know if you want to present something or steer a discussion.

Topics we want to cover:

- Perturbative constraints on hadronization models and corrections
- Linking observable-specific corrections and the dynamics of models
- Uncertainty estimates
- Links to colour evolution and first principle NP approaches



Factorization and Evolution in Full Color

Simon Plätzer **University of Graz and University of Vienna**, Philipp Böer **CERN**, Malin Sjö Dahl **Lund University**, Heribert Weigert **University of Cape Town**, Patrick Hager **JGU Mainz**

June 2 – 13, 2025



EVENT GENERATORS AT COLLIDERS AND BEYOND COLLIDERS

28 July - 22 August 2025

Simon Plätzer, Leif Lönnblad, Anita Reimer, Stefan Söldner-Rembold, Laura Fabbietti

Thanks to ...



Enno Carstensen, Yannick Dengler,
Eduardo Ferreira and Georg Wieland, **for**
logistics, conferences packs, ...

Eva Holler-Merschnick, Birgit Stessl **for admin**
and anything in the background

Axel Maas, Jeff Forshaw and Malin Sjö Dahl **for**
local and global co-organization

You!

**For coming here and contributing, and for all
the discussions we shall have.**