We welcome you to Week 1 of Lattice@2024

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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](https://indico.cern.ch)
+ **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)

CERN TH Lattice group

Matteo Di Carlo  Felix Erben  Jacob Finkenrath  Andreas Jüttner  Simon Kuberski  Tobi Tsang

Associate
Alexei Bazavov
Getting around CERN

- Gate B
- Hotel reception
- Conference room
- Coffee Breaks (Mezzanine)
- Restaurant R1
- Hotel reception
Getting around CERN

- Access Cards
- Tram Stop
- Science Gateway
- Conference room
- Restaurant (R1)
- Coffee Breaks (Mezzanine)
Let’s start the programme!

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