



LUDWIG-
MAXIMILIANS-
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MÜNCHEN

ARNOLD SOMMERFELD
CENTER FOR THEORETICAL PHYSICS



Sommerfeld Theory Colloquium

Prof. Andreas Schäfer

Regensburg University

Lattice QCD in Regensburg

In Regensburg there exists a large Lattice-QCD group (SFB/TR-55) working in many fields, ranging from the development of energy efficient super-computers to specialized Lattice studies of $SU(N)$ gauge theories with $N > 3$ for matching to AdS/CFT predictions. The bulk of the work is focused on hadron phenomenology [generalized parton distributions (GPDs), distribution amplitudes (DAs), transverse momentum dependent parton distributions (TMDs)] and QCD thermodynamics, especially in a magnetic background field. (Like a chemical potential a B-field affects quark and gluon degrees of freedom differently thus allowing to investigate their connection. In contrast to the chemical potential, however, it is easy to implement on the lattice. The aim of the talk is to give an overview and to possibly identify topics of mutual interest.

Wednesday, 30 January 13, 16:15 h, Room 348 / 349, Theresienstr. 37 / III

Prof. S. Hofmann