

Session Program

Aug 8 - 13, 2022



The 39th International Symposium on Lattice Field Theory (Lattice 2022)

Non-zero Temperature

Hörsaalzentrum Poppelsdorf, Alle Räume
Endenicher Allee 19 C, 52115 Bonn, Germany

Tue, August 9

2:00 PM

Non-zero Temperature: QCD at Non-zero Temperature I

Session | Location: CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | Convener: Harvey B. Meyer

2:00 – 2:20 PM **Chiral spin symmetry and the QCD phase diagram**

Speaker

Owe Philipsen

2:20 – 2:40 PM

Finite temperature QCD phase transition with 3 flavors of Mobius domain wall fermions

Speaker

Yu Zhang

2:40 – 3:00 PM

Progress on the QCD Deconfinement Critical Point for $N_{\text{f}}=2$ Staggered Fermions

Speaker

Reinhold Kaiser

3:00 – 3:20 PM

The chiral phase transition at nonzero imaginary baryon chemical potential for different numbers of quark flavours

Speaker

Alfredo D'Ambrosio

3:20 – 3:40 PM

Parallel tempering algorithm applied for the deconfinement transition of quenched QCD

Speaker

Ruben Kara

3:40 – 4:00 PM

Topological features of the deconfinement transition in quenched QCD

Speaker

Reka Agnes Vig

4:00 PM

4:30 PM

Non-zero Temperature: QCD at Non-zero Temperature II

Session | Location: CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | Convener: Owe Philipsen

4:30 – 4:50 PM **Charm fluctuations in (2+1)-flavor QCD at high temperature**

Speaker

Sipaz Sharma

4:50 – 5:10 PM

Absence of inhomogeneous phases in 2+1-dimensional Four-fermion and Yukawa models

Speaker
Marc Winstel

5:10 - 5:30 PM

Euclidean correlators at imaginary spatial momentum in thermal QCD

Speaker
Csaba Török

5:30 - 5:50 PM

Complex potential at $T > 0$ from fine lattices

Speaker
Gaurang Parkar

6:30 PM

Wed, August 10

2:00 PM

Non-zero Temperature: QCD at Non-zero Temperature III

Session | **Location:** CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | **Convener:** Yasumichi Aoki

2:00 – 2:20 PM

Phase structure and critical point in heavy-quark QCD at finite temperature

Speaker

Kazuyuki Kanaya

2:20 – 2:40 PM

Novel bottomonium spectral results

Speaker

Ben Page

2:40 – 3:00 PM

New results for thermal interquark bottomonium potentials using NRQCD from the HAL QCD method

Speaker

Thomas Spriggs

3:00 – 3:20 PM

Heavy quark diffusion coefficient with gradient flow

Speaker

Viljami Leino

3:20 – 3:40 PM

The heavy quark diffusion coefficient from 2+1 flavor lattice QCD

Speaker

Luis Altenkort

3:40 – 4:00 PM

Study of charm and beauty in QGP from unquenched lattice QCD

Speaker

Sajid Ali

4:00 PM

4:30 PM

Non-zero Temperature: QCD at Non-zero Temperature IV

Session | **Location:** CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | **Convener:** Issaku Kanamori

4:30 – 4:50 PM

Recent results from the FASTSUM Collaboration

Speaker

Chris Allton

4:50 – 5:10 PM

Charm baryons at finite temperature on anisotropic lattices

Speaker

Ryan Bignell

5:10 – 5:30 PM

QCD mesonic screening masses and restoration of chiral symmetry at high T

Speaker

Davide Laudicina

5:30 - 5:50 PM

Topology and the Dirac spectrum in hot QCD

Speaker

Tamas G. Kovacs

5:50 - 6:10 PM

Anomalous transport phenomena on the lattice

Speaker

Eduardo Garnacho Velasco

6:30 PM

Fri, August 12

2:10 PM

Non-zero Temperature: QCD at Non-zero Temperature V

Session | **Location:** CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | **Convener:** Sipaz Sharma

2:10 – 2:30 PM **Lattice QCD with an inhomogeneous magnetic field background**

Speaker

Adeilton Dean Marques Valois

2:30 – 2:50 PM **QCD phase diagram in a magnetic background**

Speaker

Lorenzo Maio

2:50 – 3:10 PM **Topology in electromagnetic fields and the axion-photon coupling**

Speaker

José Javier Hernández Hernández

3:10 – 3:30 PM

Photon and dilepton production rate in the quark-gluon plasma from lattice QCD

Speaker

Harvey B. Meyer

3:30 – 3:50 PM

Photon production rate from Transverse-Longitudinal (T-L) mesonic correlator on the lattice.

Speaker

Dibyendu Bala

3:50 – 4:10 PM

A $(2+1)$ -flavor lattice study of the pion quasiparticle in the thermal hadronic phase at physical quark masses

Speaker

Ardit Krasniqi

4:10 PM

4:40 PM

Non-zero Temperature: QCD at Non-zero Temperature VI

Session | **Location:** CP1-HSZ, CP1-HSZ/0.011 (CP1-HSZ) - HS1 | **Convener:** Tamas G. Kovacs

4:40 – 5:00 PM

Thermodynamics with Möbius domain wall fermions near physical point (I)

Speaker

Yasumichi Aoki

5:00 – 5:20 PM

Thermodynamics with Möbius domain wall fermions near physical point (II)

Speaker

Issaku Kanamori

5:20 – 5:40 PM **Thermal phase transition in rotating QCD with dynamical quarks**

Speaker
Artem Roenko

5:40 - 6:00 PM

Non-perturbative determination of couplings in Polyakov loop effective theories

Speaker
Christopher Winterowd

6:00 - 6:20 PM

Mean-field approximation of effective theories of lattice QCD

Speaker
Christoph Konrad

6:20 - 6:40 PM

Electric charge fluctuations using 4HEX quarks

Speaker
Szabolcs Borsanyi

6:40 PM