

Session Program

Sep 3 - 9, 2023



Quark Matter 2023

QCD at finite T and density

Hilton of the Americas, 1600 Lamar, Houston, Texas, 77010, USA

Tue, September 5

2:50 PM

QCD at finite T and density: (1)

Session | **Location:** Hilton of the Americas, Ballroom F | **Convener:** Berndt Mueller

14:50 - 15:10 **High order fluctuations of conserved charges in the continuum limit**

Speaker

Szabolcs Istvan Borsanyi

15:10 - 15:30

QCD based equation of state at finite density with a critical point from an alternative expansion scheme

Speaker

Micheal Kahangirwe

15:30 - 15:50

Bayesian Inference of QGP Properties and 3D Dynamics in Heavy-Ion Collisions in the RHIC Beam Energy Scan Program

Speaker

Chun Shen

15:50 - 16:10

Particle production in Au+Au collisions at Beam Energy Scan II energies at RHIC

Speaker

Matthew Harasty

16:10 - 16:30

Equation of state of a hot-and-dense quark gluon plasma: lattice simulations at real μ_B vs. extrapolations

Speaker

Dr Chik Him Wong

16:30 - 16:50

QCD equation of state with improved precision from lattice simulations

Speaker

Paolo Parotto

16:50 - 17:10

Heavy quark diffusion from 2+1 flavor lattice QCD

Speaker

Hai-Tao Shu

5:10 PM

Wed, September 6

2:20 PM

QCD at finite T and density: (2)

Session | Location: Hilton of the Americas, Ballroom F | Convener: Szabolcs Istvan Borsanyi

14:20 - 14:40 **Finite volume effects near the chiral crossover**

Speaker

Ruben Kara

14:40 - 15:00

QCD material parameters at zero and non-zero chemical potential from the lattice

Speaker

David Clarke

15:00 - 15:20

Influence of baryon number, strangeness, and electric charge fluctuations on spectra and collective flow at the LHC

Speaker

Dekrayat Almaalol

15:20 - 15:40 **Interferometry in a Moat Regime**

Speaker

Fabian Rennecke

15:40 - 16:00

Global angular momentum generation in heavy-ion reactions within a hadronic transport approach

Speaker

Nils Sass

4:00 PM

4:30 PM

QCD at finite T and density: (3)

Session | Location: Hilton of the Americas, Ballroom F | Convener: Volker Koch

16:30 - 16:50 **Two-particle femtoscopy at the HADES experiment**

Speaker

Mateusz Grunwald

16:50 - 17:10

Measurements of $\langle \text{it } p\text{-}\Lambda \rangle$ and $\langle \text{it } d\text{-}\Lambda \rangle$ correlations in Au+Au collisions from the fixed-target program at the STAR experiment

Speaker

Yu Hu

17:10 - 17:30

Microscopic encoding of macroscopic universality: How do the universal behaviors near the QCD transition arise from quarks and gluons?

Speaker

Dr Peter Petreczky

17:30 - 17:50

Equilibrium and Dynamical Properties of Hot and Dense Quark-Gluon matter from Holographic Black Holes

Speaker

Joaquin Grefa

17:50 - 18:10

Temperature and Strong Magnetic Field Effects in Dense Matter

Speaker

Prof. Veronica Dexheimer

6:10 PM