

Session Program

26-28 Jul 2023



**19th International Conference on
QCD in Extreme Conditions (XQCD 2023)**

**19th International Conference on QCD in
Extreme Conditions (XQCD 2023)**

Poster session

Department of Physics (University of Coimbra), Auditorium C.1

Wednesday 26 July

18:00

Poster session: Poster session

Poster Session | Location: Floor D Foyer

Systematic analysis of the impacts of symmetry energy parameters on neutron star properties

Speaker

Naresh Kumar Patra

Analyzing the speed of sound in neutron stars using machine learning

Speaker

Sagnik Chatterjee

Volume dependence of the critical endpoint and the baryon number fluctuations

Speaker

Győző Kovács

Dynamics of QCD chiral transition with real-time functional renormalization group

Speaker

Yunxin Ye

Baryonic screening masses at high temperatures from lattice QCD

Speaker

Davide Laudicina

Probing hybrid stars and the properties of the special points with radial oscillations

Speaker

Christoph Gärtlein

Chiral magnetic waves in quark matter inside neutron stars and gravitational waves

Speaker

Sota Hanai

Inhomogeneous phases and non-monotonic dispersion relations in strongly-interacting matter

Speaker

Marc Winstel

Quantum chaos in a minimalistic supersymmetric Yang-Mills-like model: from graviton gas to black holes and black branes

Speaker

Pavel Buividovich

Heavy Baryons in Warm Stellar Matter

Speaker

Tiago Custódio

Does pQCD constrain the neutron star equation?

Speaker
Milena Albino

Deconfinement in pure gauge SU(3) Yang-Mills theory: the ghost propagator

Speaker
Paulo Silva

Speed of Sound of strong-interaction matter at supranuclear densities

Speaker
Andreas Geissel

Implicit Regularization in a QCD decay of the Higgs boson

Speaker
Ana Pereira

Mean field approximation for effective theories of lattice QCD

Speaker
Christoph Konrad

On the application of gauge equivariant neural networks to the generation of field configurations

Speaker
Matteo Favoni

Study of initial state fluctuations in pp and pPb collisions

Speaker
Fernando Enrique Neri Huerta

Determining the EoS of neutron stars using bayesian neural networks

Speaker
Valéria Carvalho

The Phase Diagram of the Gross-Neveu-Yukawa Modell in (2+1) Space-Time Dimensions using Functional Renormalization Group

Speaker
Keiwan Jamaly

Mean transverse momentum fluctuations with string percolation model at LHC energies

Speaker
Pablo Fierro Rojas

Renormalization group consistent treatment of neutral color-superconducting matter

Speaker
Marco Hofmann

Pseudogauge freedom and the SO(3) algebra of spin operators.

Speaker
Sourav Dey

Superconducting baryon crystal induced via the chiral anomaly

Speaker

Geraint Evans

Spectra and flow of magnetised lepton pairs**Speaker**

Chowdhury Aminul Islam

Incorporating Mass Effects of Plasma Constituents in Heavy Fermion Energy Loss Calculations in hot QED and QCD**Speaker**

Marc Comadran Casas

Unveiling the shear viscosity to entropy density ratio with gravity analogs**Speaker**

Silvia Trabucco

Infrared Subtleties and Chiral Vertices at NLO: An Implicit Regularization Analysis**Speaker**

Ricardo Jorge Carvalho Rosado

Towards the equation of state of color-superconducting strong-interaction matter**Speaker**

Jonas Stoll

Unmasking strange dwarfs with gravitational-wave observations**Speaker**

Loïc Perot

From fluid dynamics to RG flow studies of phase transitions**Speaker**

Niklas Zorbach

Reanalysis of critical exponents for the $O(N)$ model via a hydrodynamic approach to the Functional Renormalization Group**Speaker**

Fabrizio Murgana

Schwinger model at finite temperature and density using quantum imaginary time evolution**Speaker**

Mr Juan William Pedersen

Exploring the QCD Phase Transitions with Imaginary Rotation**Speaker**

Yusuke Shimada

Pressure of cold quark matter: Next-to-leading logarithm**Speaker**

Kaapo Seppänen

Inhomogeneous phases in dense nuclear matter**Speaker**

Mr Savvas Pitsinikos

Study of the $p\Lambda$ interaction in small collision systems using a common emission source**Speaker**

Mr Jaime Gonzalez Gonzalez

Extreme plasma physics with QED effects on a quantum computer**Speaker**

Oscar Amaro

Dynamic critical behavior of the $O(4)$ chiral transition**Speaker**

Frederic Klette

The QCD chiral phase transition for various numbers of flavors at imaginary baryon chemical potential**Speaker**

Reinhold Kaiser

On gauge equivariant neural networks and global symmetries**Speaker**

Daniel Schuh

QCD Anderson transition with overlap valence quarks on a twisted-mass sea**Speaker**

Mr Robin Kehr

Universality of jet energy loss in the quark-gluon plasma using Bayesian inference**Speaker**

Alexandre Falcão

20:00