

## **Session Program**

Jul 26 - 28, 2023



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

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Extreme Conditions (XQCD 2023)**

***Poster session***

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

# Wed, July 26

6:00 PM

## 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 Trubucco

**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

8:00 PM