

## **Session Program**

**Jul 26 - 28, 2023**



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

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

### ***Parallel session A***

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

## Wed, July 26

2:00 PM

### Parallel session A: 1, Chair: Carolyn Raithel

**Session** | **Location:** Department of Physics (University of Coimbra), Auditorium C.1

2:00 – 2:25 PM

#### Is matter inside massive neutron stars not hadronic?

**Speaker**

TUHIN MALIK

2:25 – 2:50 PM

#### Neutron star radial oscillations with Delta Baryons

**Speaker**

Dr Ishfaq Ahmad Rather

2:50 – 3:15 PM

#### Delta baryons in (hot) neutron stars

**Speaker**

Kauan Marquez

3:15 PM

3:45 PM

### Parallel session A: 2, Chair: Fernando Navarra

**Session** | **Location:** Department of Physics (University of Coimbra), Auditorium C.1

3:45 – 4:10 PM

#### Relativistic description of neutron star matter with latest experimental and observational constraints

**Speaker**

Prasanta Char

4:10 – 4:35 PM

#### What is the nature of the HESS J1731-347 compact object? Does it confirm the early deconfinement phase transition?

**Speaker**

Dr Violetta Sagun

4:35 – 5:00 PM

#### Rebuilding Neutron Star EoSs from Observations with Deep Learning

**Speaker**

Lingxiao Wang

5:00 PM

## Thu, July 27

4:00 PM

### Parallel session A: 3, Chair: Waseem Kamleh

**Session** | **Location:** Department of Physics (University of Coimbra), Auditorium C.1

4:00 – 4:25 PM

#### Nontrivial topology in QCD, the Vacuum Energy and Large scale magnetic field of the Universe

**Speaker**

Ariel Zhitnitsky

4:25 – 4:50 PM

#### Kinetic/chemical Equilibration of Heavy DM Particles in Expanding Universe via Langevin equation simulation

**Speaker**

Prof. Seyong Kim

4:50 PM

5:15 PM

### Parallel session A: 4, Chair: Waseem Kamleh

**Session** | **Location:** Department of Physics (University of Coimbra), Auditorium C.1

5:15 – 5:40 PM

#### Three-gluon vertex in Landau gauge from lattice QCD: planar degeneracy and beyond.

**Speaker**

Dr Feliciano De Soto

5:40 – 6:05 PM

#### Higgs-confinement continuity in light of particle-vortex statistics

**Speaker**

Yui Hayashi

6:05 PM

## Fri, July 28

2:00 PM

### Parallel session A: 5, Chair: Joseph Kapusta

Session | Location: Department of Physics (University of Coimbra), Auditorium C.1

2:00 - 2:25 PM

#### Speed of Sound beyond the High-Density Relativistic Limit in Dense Two-Color QCD: Lattice Simulation Results

**Speaker**

Etsuko Itou

2:25 - 2:50 PM

#### QCD thermodynamics with dynamical chiral fermions

**Speaker**

Andrey Kotov

2:50 - 3:15 PM

#### Hadron scatterings in small chemical potential

**Speaker**

Kotaro Murakami

3:15 - 3:40 PM

#### Exploring external field related phenomena in full lattice QCD

**Speaker**

Bastian Brandt

3:40 PM