

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)**

Parallel session A

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

Wednesday 26 July

14:00

Parallel session A: 1, Chair: Carolyn Raithel

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

14:00-14:25

Is matter inside massive neutron stars not hadronic?

Speaker

TUHIN MALIK

14:25-14:50

Neutron star radial oscillations with Delta Baryons

Speaker

Dr Ishfaq Ahmad Rather

14:50-15:15

Delta baryons in (hot) neutron stars

Speaker

Kauan Marquez

15:15

15:45

Parallel session A: 2, Chair: Fernando Navarra

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

15:45-16:10

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

Speaker

Prasanta Char

16:10-16:35

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

Speaker

Dr Violetta Sagun

16:35-17:00

Rebuilding Neutron Star EoSs from Observations with Deep Learning

Speaker

Lingxiao Wang

17:00

Thursday 27 July

16:00

Parallel session A: 3, Chair: Waseem Kamleh

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

16:00-16:25

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

Speaker

Ariel Zhitnitsky

16:25-16:50

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

Speaker

Prof. Seyong Kim

16:50

17:15

Parallel session A: 4, Chair: Waseem Kamleh

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

17:15-17:40

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

Speaker

Dr Feliciano De Soto

17:40-18:05

Higgs-confinement continuity in light of particle-vortex statistics

Speaker

Yui Hayashi

18:05

Friday 28 July

14:00

Parallel session A: 5, Chair: Joseph Kapusta

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

14:00-14:25

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

Speaker

Etsuko Ito

14:25-14:50

QCD thermodynamics with dynamical chiral fermions

Speaker

Andrey Kotov

14:50-15:15

Hadron scatterings in small chemical potential

Speaker

Kotaro Murakami

15:15-15:40

Exploring external field related phenomena in full lattice QCD

Speaker

Bastian Brandt

15:40