

Session Program

1-6 Aug 2022



XVth Quark Confinement and the Hadron Spectrum

Parallels Track F

University of Stavanger, Campus Ullandhaug

Monday 1 August

14:00

Parallels Track F: Monday I

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Andreas Schmitt

14:00-14:20

Exploring the Phase Diagram of V-QCD with Neutron Star Merger Simulations

Speaker

Ch Ecker

14:20-14:40

Neutron stars and phase diagram from a double hard-wall

Speaker

Lorenzo Bartolini

14:40-15:00

Realistic neutron stars from holography

Speaker

Nicolas Kovensky

15:00

15:40

Parallels Track F: Monday II

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Andreas Schmitt

15:40-16:00

Strange Quark Matter from Baryons

Speaker

Savvas Pitsinigkos

16:00-16:20

Understanding QCD matter at finite density using relativistic nuclear models

Speaker

Aman Abhishek

16:20-16:40

Hybrid stars with large strange quark cores

Speaker

Márcio Ferreira

17:00

Tuesday 2 August

14:00

Parallels Track F: Tuesday I

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Johann Marton

14:00–14:20

Phase diagram and condensates at finite isospin QCD

Speaker

Jens Oluf Andersen

14:20–14:40

Chiral anomaly induces superconducting baryon crystal

Speaker

Andreas Schmitt

14:40–15:00

Crossover Toward Quark Matter in Neutron Stars

Speaker

Kenji Fukushima

15:00

15:40

Parallels Track F: Tuesday II

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Johann Marton

15:40–16:00

Early quark deconfinement in compact star astrophysics and heavy-ion collisions

Speaker

Oleksii Ivanytskyi

16:00–16:20

Merger of a Neutron Star with a Black Hole: One-family versus Two-families Scenario

Speaker

Francesco Di Clemente

16:20–16:40

Gravitational wave signatures of phase transition from hadronic to quark matter in isolated neutron stars and binaries

Speaker

Dr Ritam Mallick

16:40–17:00

Reconciling Multi-messenger Constraints with Chiral Symmetry Restoration

Speaker

Michał Marczenko

17:00

Thursday 4 August

14:00

Parallels Track F: Thursday I

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** David Blaschke

14:00-14:20

Are there pastas in neutron stars?

Speaker

Nicolas Chamel

14:20-14:40

Equation of state for the hot hyperonic neutron star core

Speaker

Laura Tolos

14:40-15:00

Transport coefficients of magnetized neutron star cores

Speaker

Petr Shternin

15:00

15:40

Parallels Track F: Thursday II

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** David Blaschke

15:40-16:00

Trace anomaly in neutron stars

Speaker

Yuki Fujimoto

16:00-16:20

QCD in the cores of neutron stars

Speaker

Aleksi Kurkela

16:20-16:40

Impacts on the dense-matter equation of state from high-density QCD

Speaker

Tyler Gorda

17:00

Friday 5 August

14:00

Parallels Track F: Friday I

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Laura Tolos

14:00-14:20

Special points in the mass-radius diagram of hybrid stars

Speaker

David Blaschke

14:20-14:40

How dark matter affects compact star's properties and constraints we put on strongly interacting matter at high densities

Speaker

Violetta Sagun

14:40-15:00

Strange white dwarfs

Speaker

Alessandro Drago

15:00

15:40

Parallels Track F: Friday II

Session | **Location:** UiS, AR Ø-130, On the ground floor of the AR building | **Convener:** Laura Tolos

15:40-16:00

High-accuracy calculation of charge radii of light nuclei

Speaker

Arseniy Filin

16:00-16:20

Phi meson properties in nuclear matter from dilepton spectra in a transport approach

Speaker

Philipp Gubler

16:20-16:40

A technical ecosystem to enable multi-messenger astrophysics

Speaker

Michael Coughlin

16:40-17:00

Exotic states production in relativistic heavy ion collisions

Speakers

Prof. Larissa Bravina, ZhiLei She

17:00