

Session Program

1-6 Aug 2022



XVth Quark Confinement and the Hadron Spectrum

Parallels Track A

University of Stavanger, Campus Ullandhaug

Monday 1 August

14:00

Parallels Track A: Monday I

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Jeff Greensite

14:00–14:30

Fractionally charged instantons in $CP(N-1)$ spin models and $SU(N)$ gauge theories

Speaker

Robert Pisarski

14:30–15:00

On the mixed 0-form/1-form anomaly in the Hilbert space: pouring new wine into old bottles

Speaker

Andrew Cox

15:00

15:40

Parallels Track A: Monday II

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Manfred Faber

15:40–16:00

Hadrons, cosmological constant, and type II superconductors

Speaker

Keh-Fei Liu

16:00–16:30

Scalar states of QCD from functional methods

Speaker

Prof. Christian Fischer

16:30–17:00

Semiclassical description of confinement via center vortices and anomaly-preserving T^2 compactifications

Speaker

Yuya Tanizaki

17:00

Tuesday 2 August

14:00

Parallels Track A: Tuesday I

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Dmitry Antonov

14:00–14:30

Four-fermi deformations of the massless Schwinger model and confinement

Speaker

Arkady Vainshtein

14:30–15:00

Localisation of Dirac eigenmodes and confinement in gauge theories: the Roberge-Weiss transition

Speaker

Matteo Giordano

15:00

15:40

Parallels Track A: Tuesday II

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Jeff Greensite

15:40–16:10

Quarks and triality in a finite volume

Speaker

Lorenz von Smekal

16:10–16:40

The static potential using trial states from Laplacian eigenmodes

Speaker

Roman Höllwieser

16:40–17:00

Non-invertible self-duality defects of Cardy-Rabinovici model and mixed gravitational anomaly

Speaker

Yui Hayashi

17:00

Thursday 4 August

14:00

Parallels Track A: Thursday I

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Manfred Faber

14:00–14:30

Excitations of "elementary" particles in superconductors and other gauge Higgs theories

Speaker

Jeff Greensite

14:30–15:00

Instanton gas approximation for the Hubbard model

Speaker

Dr Maksim Ulybyshev

15:00

15:40

Parallels Track A: Thursday II

Session | **Location:** UiS, EOJ, Main auditorium where also plenaries are held | **Convener:** Jeff Greensite

15:40–16:00

Curci-Ferrari model for describing infrared QCD

Speaker

Marcela Peláez

16:00–16:20

Study of hadron masses with Faddeev-Popov eigenmode projection in the Coulomb gauge

Speaker

Mr Hiroki Ohata

16:20–16:40

Phase structure of pure Yang-Mills theory in an anisotropic system: A new extreme condition of QCD

Speaker

Daiki Suenaga

16:40–17:00

The influence of the Casimir effect on the vacuum structure of 3+1 dimensional compact electrodynamics

Speaker

Aleksei Tanashkin

17:00

15:40

Parallels Track A: Thursday III

Session | **Location:** UiS, AR G-202, On the first floor above the ground floor in the AR building | **Convener:** Dmitry Antonov

16:00–16:20

Lattice study of the trace anomaly contributions to the glueball masses

Speaker

Keita Sakai

16:20–16:40

Effective quarks and gluons in QCD

Speaker

Maria Gómez-Rocha

16:40–17:00

Path integral study of the Casimir effect in a chiral medium

Speaker

Thomas Oosthuyse

17:00

Friday 5 August

14:00

Parallels Track A: Friday I

Session | **Location:** UiS, EOJ | **Convener:** robert pisarski

14:00–14:30

Calorons, monopoles and stable, charged solitons

Speaker

Manfried Faber

14:30–15:00

Field, current, and charge distribution in a pure gauge SU(3) flux tube

Speaker

Volodymyr Chelnokov

15:00

15:40

Parallels Track A: Friday II

Session | **Location:** UiS, EOJ | **Convener:** Manfried Faber

15:40–16:00

Topological objects and the local Polyakov loop

Speaker

Rasmus Larsen

16:00–16:20

London model of dual color superconductor

Speaker

Dr Jiri Hosek

16:20–16:40

Studying the Chiral Magnetic Effect in Pb+Pb and Xe+Xe collisions using the AVFD model with ALICE

Speaker

Shi Qiu

17:00

15:40

Parallels Track A: Friday III

Session | **Location:** UiS, AR G-202, On the first floor above the ground floor in the AR building | **Convener:** Dmitry Antonov

16:00–16:20

Energy-momentum tensor around a soliton in 1+1 dimensional ϕ^4 model and its regularization

Speaker

Hiroaki Ito

16:20–16:40

Position-space gluon propagator: positivity violation and gluon mass generation.

Speaker

Feliciano de Soto Borrero

16:40–17:00

Compact QED: the photon propagator, confinement and positivity violation for the pure gauge theory

17:00

Speaker
Orlando Oliveira