



# XVth Quark Confinement and the Hadron Spectrum

## Monday, 1 August 2022

### Parallels Track A: Monday I - EOJ (14:00 - 15:00)

-Conveners: Jeff Greensite

time	[id] title	presenter
14:00	[144] Fractionally charged instantons in CP(N-1) spin models and SU(N) gauge theories	PISARSKI, Robert
14:30	[59] On the mixed 0-form/1-form anomaly in the Hilbert space: pouring new wine into old bottles	COX, Andrew

### Parallels Track A: Monday II - EOJ (15:40 - 17:00)

-Conveners: Manfred Faber

time	[id] title	presenter
15:40	[42] Hadrons, cosmological constant, and type II superconductors	LIU, Keh-Fei
16:00	[79] Scalar states of QCD from functional methods	Prof. FISCHER, Christian
16:30	[102] Semiclassical description of confinement via center vortices and anomaly-preserving $T^2$ compactifications	TANIZAKI, Yuya

# Tuesday, 2 August 2022

## Parallels Track A: Tuesday I - EOJ (14:00 - 15:00)

-Conveners: **Dmitry Antonov**

time	[id] title	presenter
14:00	[146] Four-fermi deformations of the massless Schwinger model and confinement	VAINSHTEIN, Arkady
14:30	[91] Localisation of Dirac eigenmodes and confinement in gauge theories: the Roberge-Weiss transition	GIORDANO, Matteo

## Parallels Track A: Tuesday II - EOJ (15:40 - 17:00)

-Conveners: **Jeff Greensite**

time	[id] title	presenter
15:40	[186] Quarks and triality in a finite volume	VON SMEKAL, Lorenz
16:10	[95] The static potential using trial states from Laplacian eigenmodes	HÖLLWIESER, Roman
16:40	[208] Non-invertible self-duality defects of Cardy-Rabinovici model and mixed gravitational anomaly	HAYASHI, Yui

# Thursday, 4 August 2022

## Parallels Track A: Thursday I - EOJ (14:00 - 15:00)

-Conveners: **Manfried Faber**

time	[id] title	presenter
14:00	[114] Excitations of "elementary" particles in superconductors and other gauge Higgs theories	GREENSITE, Jeff
14:30	[108] Instanton gas approximation for the Hubbard model	Dr ULYBYSHEV, Maksim

## Parallels Track A: Thursday III - AR G-202 (15:40 - 17:00)

-Conveners: **Dmitry Antonov**

time	[id] title	presenter
16:00	[200] Lattice study of the trace anomaly contributions to the glueball masses	SAKAI, Keita
16:20	[201] Effective quarks and gluons in QCD	GÓMEZ-ROCHA, Maria
16:40	[143] Path integral study of the Casimir effect in a chiral medium	OOSTHUYSE, Thomas

## Parallels Track A: Thursday II - EOJ (15:40 - 17:00)

-Conveners: **Jeff Greensite**

time	[id] title	presenter
15:40	[179] Curci-Ferrari model for describing infrared QCD	PELÁEZ, Marcela
16:00	[198] Study of hadron masses with Faddeev-Popov eigenmode projection in the Coulomb gauge	Mr OHATA, Hiroki
16:20	[185] Phase structure of pure Yang-Mills theory in an anisotropic system: A new extreme condition of QCD	SUENAGA, Daiki
16:40	[65] The influence of the Casimir effect on the vacuum structure of 3+1 dimensional compact electrodynamics	TANASHKIN, Aleksei

# Friday, 5 August 2022

## Parallels Track A: Friday I - EOJ (14:00 - 15:00)

-Conveners: robert pisarski

time	[id] title	presenter
14:00	[72] Calorons, monopoles and stable, charged solitons	FABER, Manfred
14:30	[129] Field, current, and charge distribution in a pure gauge SU(3) flux tube	CHELNOKOV, Volodymyr

## Parallels Track A: Friday II - EOJ (15:40 - 17:00)

-Conveners: Manfred Faber

time	[id] title	presenter
15:40	[168] Topological objects and the local Polyakov loop	LARSEN, Rasmus
16:00	[124] London model of dual color superconductor	Dr HOSEK, Jiri
16:20	[117] Studying the Chiral Magnetic Effect in Pb+Pb and Xe+Xe collisions using the AVFD model with ALICE	QIU, Shi

## Parallels Track A: Friday III - AR G-202 (15:40 - 17:00)

-Conveners: Dmitry Antonov

time	[id] title	presenter
16:00	[43] Energy-momentum tensor around a soliton in 1+1 dimensional $\phi^4$ model and its regularization	ITO, Hiroaki
16:20	[228] Position-space gluon propagator: positivity violation and gluon mass generation.	DE SOTO BORRERO, Feliciano
16:40	[219] Compact QED: the photon propagator, confinement and positivity violation for the pure gauge theory	OLIVEIRA, Orlando