

Session Program

28 August 2016 to 4 September 2016



XIIth Quark Confinement and the Hadron Spectrum

Section A

Monday 29 August

15:00

Section A

Session | **Location:** Makedonia Palace, Alexandros II | **Convener:** Prof. Jeff Greensite

15:00–15:30

On Schwinger-Dyson equations for QCD in Coulomb gauge from local action

Speaker

Prof. Daniel Zwanziger

15:30–16:00

Hamiltonian Approach to QCD in Coulomb gauge at finite temperatures

Speaker

Hugo Reinhardt

16:00–16:30

Deconfinement and chiral transition in AdS/QCD wall models supplemented with a magnetic field

Speaker

David Dudal

16:30–17:00

Superconformal Algebraic Approach to Hadron Structure: The Perturbative-Nonperturbative Interface in QCD

Speaker

Guy de Teramond

17:00

17:30

Section A

Session | **Location:** Makedonia Palace, Alexandros II | **Convener:** Dmitry Antonov

17:30–18:00

Gauge engineering and propagators

Speaker

Prof. Axel Maas

18:00–18:30

From QCD's n-point functions to nucleon resonances

Speaker

Dr Gernot Eichmann

18:30–18:50

Three-point functions in Yang-Mills Theory and QCD in Landau gauge

Speaker

Adrian Lorenz Blum

18:50–19:10

Chiral symmetry breaking in continuum QCD

Speaker

Mario Mitter

19:10–19:30

Dyson-Schwinger approach to Hamiltonian QCD

Speaker

Davide Campagnari

20:00

19:30-20:00

Empty

Tuesday 30 August

17:30

Section A

Session | **Location:** Makedonia Palace, Alexandros II | **Convener:** Manfred Faber

17:30–18:00 **On lowest Landau level dominance in QCD**

Speaker

Falk Bruckmann

18:00–18:30 **Dyons and Roberge - Weiss transition in lattice QCD**

Speaker

Vitaly Bornyakov

18:30–18:50

Confinement and Chiral Symmetry Breaking from an ensemble of interacting Instanton-dyons(monopoles) in SU(2) QCD

Speaker

Rasmus Larsen

18:50–19:10 **Asymptotic freedom in the Hamiltonian approach to binding of colour**

Speaker

Maria Gomez Rocha

19:10–19:30 **CANCELLED: suitability of quadratic gauge for non-perturbative QCD**

Speaker

Mr Haresh Raval

19:30

Thursday 1 September

14:30

Section A

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Prof. Jeff Greensite

14:30–15:00 **Towards a theoretical description of dense QCD**

Speaker

Owe Philipsen

15:00–15:30 **The density of states approach to Lattice Gauge Theory**

Speaker

Roberto Pellegrini

15:30–16:00 **QCD-like theories at finite density**

Speaker

Prof. Lorenz von Smekal

16:00–16:30

Polyakov line actions from SU(3) lattice gauge theory with dynamical fermions via relative weights

Speaker

Dr Roman Höllwieser

16:30

17:00

Section A

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Manfred Faber

17:00–17:20

Thermodynamics and the Polyakov loop in the covariant variational approach to Yang-Mills theory

Speaker

Markus Quandt

17:20–17:40 **Properties of QCD with nonzero chiral chemical potential**

Speaker

Dr Victor Braguta

17:40–18:00 **QCD inspired determination of NJL-model parameters**

Speaker

Paul Springer

18:00–18:20 **On Landau gauge Yang-Mills correlation functions**

Speaker

Anton Cyrol

18:20–18:40

The Dark Side of the Propagators: exploring their analytic properties by a massive expansion

Speaker

Fabio Siringo

18:40-19:00

CANCELLED: The pseudoscalar meson octet in term of $SU(N)$ Gauge Invariant Lagrangian

Speaker

Prof. Andrew Koshelkin

19:00

Friday 2 September

15:00

Section A

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Dmitry Antonov

15:00–15:30 **Confining properties of QCD in strong magnetic backgrounds**

Speaker

Massimo D'Elia

15:30–16:00

Confinement, NonAbelian monopoles, and 2D CP(N-1) model on finite length strings

Speaker

Prof. Kenichi Konishi

16:00–16:30

Next-to-leading order corrections to the heavy quark potentials in the effective string theory

Speaker

Sungmin Hwang

16:30–17:00

Detecting magnetic defects in continuum Yang-Mills theory, ensembles, and gluon topological confinement

Speaker

Prof. Luis E. Oxman

17:00

17:30

Section A

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Dmitry Antonov

17:30–17:55

A gauge-independent Higgs mechanism and the implications for quark confinement

Speaker

Kei-Ichi Kondo

17:55–18:20

Domain wall network as QCD vacuum: confinement, chiral symmetry, hadronization

Speaker

Dr Sergei Nedelko

18:20–18:45

Heavy-heavy and heavy-light quarks interactions generated by QCD vacuum

Speaker

Mirzayusuf Musakhanov

18:45–19:10

QCD Gluon Green functions free of Quantum fluctuations

Speaker

Dr José Rodríguez-Quintero

19:10–19:30

CANCELLED: Conclusions from the simplifications provided by Effective Locality in QCD

Speaker

Dr Peter Tsang

19:30