

## **Session Program**

**August 28, 2016 to September 4, 2016**



# **XIIth Quark Confinement and the Hadron Spectrum**

## ***Section A***

# Mon, August 29

3:00 PM

## 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

5:00 PM

5:30 PM

## 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

8:00 PM

19:30 - 20:00

**Empty**

## Tue, August 30

5:30 PM

### 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 Hareesh Raval

7:30 PM

# Thu, September 1

2:30 PM

## 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

4:30 PM

5:00 PM

## 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

7:00 PM

# Fri, September 2

3:00 PM

## 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

5:00 PM

5:30 PM

## 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

7:30 PM