

# **Lattice and Functional Techniques for Exploration of Phase Structure and Transport Properties in Quantum Chromodynamics**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Registration/Opening

*Tuesday, 4 September 2018 08:30 (30 minutes)*

Contribution ID: 1

Type: **not specified**

## **Correlations and critical behaviour in SU(2) gluodynamics**

*Tuesday, 4 September 2018 09:00 (40 minutes)*

**Presenter:** ROGALYOV, Roman

Contribution ID: 2

Type: **not specified**

## **Lattice study of the sphaleron rate in gluodynamics**

*Tuesday, 4 September 2018 09:40 (40 minutes)*

**Presenter:** KOTOV, Andrey

Contribution ID: 3

Type: **not specified**

## **Real-time simulations : studying systems far from equilibrium**

*Tuesday, 4 September 2018 13:30 (40 minutes)*

**Presenter:** BOGUSLAVSKI, Kirill

Contribution ID: 4

Type: **not specified**

## Sound in quark matter

*Tuesday, 4 September 2018 10:40 (40 minutes)*

**Presenter:** KERBIKOV, Boris

Contribution ID: 5

Type: **not specified**

# **Dyons near the transition temperature in SU(3) gluodynamics**

*Tuesday, 4 September 2018 11:20 (40 minutes)*

**Presenter:** MARTEMYANOV, Boris

Contribution ID: 6

Type: **not specified**

# Quantum corrections to the classical statistical approximation within the Schwinger-Keldysh technique

*Tuesday, 4 September 2018 14:10 (40 minutes)*

**Presenter:** RADOVSKAYA, Anna



Contribution ID: 7

Type: **not specified**

## **Dependence of chromomagnetic field screening on its color components**

*Tuesday, 4 September 2018 15:10 (40 minutes)*

**Presenter:** KOLOMOYETS, Natalia

Contribution ID: 8

Type: **not specified**

## **Catalytic effects of monopoles in QCD**

*Tuesday, 4 September 2018 15:50 (40 minutes)*

**Presenter:** HASEGAWA, Masayasu

Contribution ID: 9

Type: **not specified**

# **Topology and axial U(1) symmetry in 2-flavor hot QCD**

## **Topology and axial U(1) symmetry in 2-flavor hot QCD**

*Wednesday, 5 September 2018 09:00 (40 minutes)*

**Presenter:** AOKI, Yasumichi

Contribution ID: **10**

Type: **not specified**

## **QCD-Dynamics at finite density and signatures of the critical endpoint**

*Wednesday, 5 September 2018 09:40 (40 minutes)*

**Presenter:** PAWLOWSKI, Jan

Contribution ID: 11

Type: **not specified**

## **Lattice study of QCD at nonzero chiral density**

*Wednesday, 5 September 2018 10:40 (40 minutes)*

**Presenter:** BRAGUTA, Viktor

Contribution ID: 12

Type: **not specified**

## **Lattice study of dense two-color quark matter at low temperature**

*Wednesday, 5 September 2018 11:20 (40 minutes)*

**Presenter:** NIKOLAEV, Aleksandr

Contribution ID: 13

Type: **not specified**

## **QCD at nonzero isospin asymmetry**

*Wednesday, 5 September 2018 13:30 (40 minutes)*

**Presenter:** BRANDT, Bastian

Contribution ID: 14

Type: **not specified**

# The QCD phase diagram from Dyson-Schwinger equations

*Wednesday, 5 September 2018 14:10 (40 minutes)*

**Presenter:** FISCHER, Christian



Contribution ID: 15

Type: **not specified**

## **The center vortex model of the QCD vacuum : successes and problems**

*Wednesday, 5 September 2018 15:10 (40 minutes)*

**Presenter:** FABER, Manfred

Contribution ID: 16

Type: **not specified**

## **Shear and bulk viscosity temperature dependence within SU(3) gluodynamics on the lattice**

*Wednesday, 5 September 2018 15:50 (40 minutes)*

**Presenter:** ASTRAKHANTSEV, Nikita

Contribution ID: 17

Type: **not specified**

## **Chirally asymmetric quark matter in the framework of NJL model**

*Thursday, 6 September 2018 09:00 (40 minutes)*

**Presenter:** ZHOKHOV, Roman

Contribution ID: **18**

Type: **not specified**

## **Chiral Vortical Effect and Wigner Function**

*Thursday, 6 September 2018 09:40 (40 minutes)*

**Presenter:** PROKHOROV, Georgy

Contribution ID: 19

Type: **not specified**

# The quark distribution function from lattice QCD

*Thursday, 6 September 2018 10:40 (40 minutes)*

**Presenter:** IIDA, Hideaki

Contribution ID: 20

Type: **not specified**

# Fluctuation pattern of Polyakov loop clusters in SU(2) gluodynamics

*Thursday, 6 September 2018 11:20 (40 minutes)*

**Presenter:** BUGAEV, Kyrill

Contribution ID: 21

Type: **not specified**

## **Screening masses and quark free energies at small baryonic density $X$ (in 2+1 flavour QCD)**

*Thursday, 6 September 2018 13:30 (40 minutes)*

**Presenter:** RUCCI, Andrea

Contribution ID: 22

Type: **not specified**

## **Exploring QCD phase structure: Lattice QCD approach and its application to Experiments**

**Presenter:** NAKAMURA, Atsushi



Contribution ID: 23

Type: **not specified**

# Restoring the canonical partition functions from imaginary chemical potential

*Thursday, 6 September 2018 16:30 (40 minutes)*

**Presenter:** BORNIAKOV, Vitaly