

# **From first-principles QCD to experiments**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

# On the timelike pion and gamma-3-pion form factors

*Tuesday, 23 May 2023 09:45 (45 minutes)*

**Presenter:** ALKOFER, Reinhard (Institute of Physics, University of Graz)

Contribution ID: 4

Type: **not specified**

# Quark pressure inside hadrons at finite density

*Thursday, 25 May 2023 11:00 (45 minutes)*

**Presenter:** DRAGO, Alessandro (University of Ferrara)

Contribution ID: 5

Type: **not specified**

## **Meson effects on the QCD phase transition at physical and unphysical quark masses**

*Thursday, 25 May 2023 09:00 (45 minutes)*

**Presenter:** Prof. FISCHER, Christian S. (Justus-Liebig-Universität Gießen)

Contribution ID: 6

Type: **not specified**

# Dynamically generated four-quark interactions in QCD

*Monday, 22 May 2023 11:00 (45 minutes)*

**Presenter:** FU, Wei-jie

Contribution ID: 7

Type: **not specified**

# The internal structure of light baryon excitations

*Thursday, 25 May 2023 16:15 (30 minutes)*

**Presenter:** LIU, Langtian

Contribution ID: 8

Type: **not specified**

## **Non-perturbative characteristics of QCD spectral functions at finite temperature**

*Thursday, 25 May 2023 11:45 (45 minutes)*

**Presenter:** LOWDON, Peter (Goethe University Frankfurt)

Contribution ID: 9

Type: **not specified**

# Schwinger mechanism in QCD

*Tuesday, 23 May 2023 11:00 (30 minutes)*

**Presenter:** NARCISO FERREIRA, Mauricio



Contribution ID: **10**

Type: **not specified**

# Multigluon correlation functions from lattice QCD

*Friday, 26 May 2023 11:00 (45 minutes)*

**Presenter:** OLIVEIRA, Orlando (University of Coimbra)

Contribution ID: **11**

Type: **not specified**

## Progress in lattice QCD at $T>0$

*Monday, 22 May 2023 09:45 (45 minutes)*

**Presenter:** PETRECKZY, Peter (BNL)

Contribution ID: 13

Type: **not specified**

# Hadronic resonances from lattice QCD

*Wednesday, 24 May 2023 16:00 (45 minutes)*

**Presenter:** ROMERO-LOPEZ, Fernando (University of Valencia)

Contribution ID: 14

Type: **not specified**

## **Real-time dynamics via spectral reconstruction - introducing a general framework based on Gaussian process regression**

*Tuesday, 23 May 2023 11:30 (30 minutes)*

**Presenter:** TURNWALD, Jonas (TU Darmstadt)

Contribution ID: 15

Type: **not specified**

# **Classical lumps and their quantum descendants in the QCD's Regge limit**

*Monday, 22 May 2023 16:00 (45 minutes)*

**Presenter:** VENUGOPALAN, Raju (Brookhaven National Laboratory)

Contribution ID: 16

Type: **not specified**

# Light cone parton distribution functions from Lattice QCD

*Tuesday, 23 May 2023 14:45 (45 minutes)*

**Presenter:** ZAFEIROPOULOS, Savvas (CNRS and Aix Marseille University)

Contribution ID: 17

Type: **not specified**

# **Towards a Stability Analysis of Inhomogeneous Phases in QCD**

*Wednesday, 24 May 2023 12:00 (30 minutes)*

**Presenter:** MOTTA, Theo (TU Darmstadt)

Contribution ID: **19**

Type: **not specified**

## **GPDs from lattice QCD**

*Tuesday, 23 May 2023 14:00 (45 minutes)*

**Presenter:** CONSTANTINOU, Martha



Contribution ID: 20

Type: **not specified**

## **Phenomenology from three-gluon vertex in extended kinematics.**

*Thursday, 25 May 2023 09:45 (45 minutes)*

**Presenter:** DE SOTO, Feliciano (Universidad Pablo de Olavide)

Contribution ID: 21

Type: **not specified**

## **Closing the gap between functional QCD method and the experimental observables**

*Wednesday, 24 May 2023 09:00 (45 minutes)*

**Presenter:** GAO, Fei

Contribution ID: 22

Type: **not specified**

## **Challenges in QCD matter physics - The scientific programme of the Compressed Baryonic Matter experiment at FAIR**

*Monday, 22 May 2023 14:45 (45 minutes)*

**Presenter:** HOEHNE, Claudia (JLU Giessen)

Contribution ID: 24

Type: **not specified**

## Correlations in a Moat Regime

*Monday, 22 May 2023 11:45 (45 minutes)*

**Presenter:** RENNECKE, Fabian (JLU Giessen)

Contribution ID: 25

Type: **not specified**

## **Studies of baryon time-like transition form-factors in QCD matter with dileptons**

*Tuesday, 23 May 2023 09:00 (45 minutes)*

**Presenter:** SALABURA, Piotr (Jagiellonian University)

Contribution ID: 26

Type: **not specified**

# Insights into the pion dynamics in Minkowski space

*Friday, 26 May 2023 11:45 (45 minutes)*

**Presenter:** SALME', Giovanni (INFN - Sezione di Roma)

Contribution ID: 27

Type: **not specified**

# Quark matter in Neutron Stars

*Thursday, 25 May 2023 14:00 (45 minutes)*

**Presenter:** SCHAEFER, Bernd-Jochen

Contribution ID: 28

Type: **not specified**

# Vector and Axial-Vector Mesons in Nuclear Matter

*Friday, 26 May 2023 09:45 (45 minutes)*

**Presenter:** TRIPOLT, Ralf-Arno (University of Giessen)



Contribution ID: 29

Type: **not specified**

# **Towards the QCD Phase Structure with the fRG: A Comprehensive Analysis**

*Wednesday, 24 May 2023 09:45 (45 minutes)*

**Presenter:** WINK, Nicolas (TU Darmstadt)

Contribution ID: **30**

Type: **not specified**

# Thermal photon production rate from lattice QCD

*Wednesday, 24 May 2023 11:00 (30 minutes)*

**Presenter:** BALA, Dibyendu (Bielefeld University)

Contribution ID: 31

Type: **not specified**

## Going to the light-front with contour deformations

*Wednesday, 24 May 2023 16:45 (30 minutes)*

**Presenter:** FERREIRA, Eduardo (University of Graz)

Contribution ID: 32

Type: **not specified**

## **QCD phase structure from a minimal truncated Dyson-Schwinger equations approach**

*Wednesday, 24 May 2023 11:30 (30 minutes)*

**Presenter:** LU, Yi (Peking University)

Contribution ID: 33

Type: **not specified**

# Color Superconductivity beyond Meanfield Approximation

*Monday, 22 May 2023 16:45 (30 minutes)*

**Presenter:** MIRE, Ugo (Giessen University)

Contribution ID: 34

Type: **not specified**

# **Heavy Quark Spectral Functions and Momentum Broadening in a highly occupied non-abelian plasma off-equilibrium**

*Thursday, 25 May 2023 15:15 (30 minutes)*

**Presenter:** PANDEY, Harshit (The Institute of Mathematical Sciences (IMSc), Chennai)

Contribution ID: 35

Type: **not specified**

# Lattice computation of the Kugo-Ojima function

*Wednesday, 24 May 2023 15:00 (30 minutes)*

**Presenter:** SILVA, Paulo (University of Coimbra)

Contribution ID: 36

Type: **not specified**

## Spectral functions from the spectral fRG

*Tuesday, 23 May 2023 12:00 (30 minutes)*

**Presenter:** WESSELY, Jonas (ITP Heidelberg)



Contribution ID: 37

Type: **not specified**

# Welcome

Contribution ID: **38**

Type: **not specified**

## Registration

Contribution ID: 39

Type: **not specified**

## Discussion: QCD phase diagram

Contribution ID: 40

Type: **not specified**

## Discussion: Hadronic structure

Contribution ID: 41

Type: **not specified**

## Soft pions near the QCD chiral critical point

*Wednesday, 24 May 2023 14:30 (30 minutes)*

**Presenter:** GROSSI, Eduardo (Florence University)

Contribution ID: 42

Type: **not specified**

## **Spin alignment of vector mesons in heavy-ion collisions**

*Thursday, 25 May 2023 14:45 (30 minutes)*

**Presenter:** Dr SHENG, Xin-Li (INFN Firenze)

Contribution ID: 43

Type: **not specified**

**TBA**

*Friday, 26 May 2023 09:00 (45 minutes)*

**Presenter:** CUTERI, Francesca