

**Quo vadis QCD theory:  
heavy-ion collision perspectives  
and beyond**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Talk 2

Contribution ID: 2

Type: **not specified**

## Welcome

*Monday 30 September 2019 13:00 (30 minutes)*

Contribution ID: 3

Type: **not specified**

## **Emergence of collectivity in pp, pA and AA collisions at the LHC**

*Tuesday 1 October 2019 08:30 (45 minutes)*

**Presenter:** KURKELA, Eero Aleks (CERN)

**Session Classification:** General presentations

Contribution ID: 4

Type: **not specified**

## **Towards dependable real-time dynamics from lattice QCD**

*Monday 30 September 2019 13:30 (45 minutes)*

**Presenter:** ROTHKOPF, Alexander (University of Stavanger)

**Session Classification:** General presentations

Contribution ID: 5

Type: **not specified**

## **Quo vadis quarkonium measurements as probe of the QCD medium**

*Monday 30 September 2019 15:00 (45 minutes)*

**Presenter:** ARSENE, Ionut Cristian (University of Oslo (NO))

**Session Classification:** General presentations

Contribution ID: 6

Type: **not specified**

## **Testing the QCD (or QCD-like) phase transition with GW observatories?**

*Monday 30 September 2019 17:00 (45 minutes)*

**Presenter:** NARDINI, Germano (Universitaet Bern)

**Session Classification:** General presentations

Contribution ID: 7

Type: **not specified**

## **"Why are we here?" A presentation of Norwegian activities**

*Tuesday 1 October 2019 16:15 (30 minutes)*

**Session Classification:** General presentations



Contribution ID: 8

Type: **not specified**

## **Real-time lattice simulations of overoccupied gluodynamics**

*Tuesday 1 October 2019 09:15 (45 minutes)*

**Presenter:** LAPPI, Tuomas (University of Jyvaskyla)

**Session Classification:** General presentations

Contribution ID: 9

Type: **not specified**

## **Probing space-time structure and thermalization of QCD jets**

*Monday 30 September 2019 16:15 (45 minutes)*

**Presenter:** TYWONIUK, Konrad (University of Bergen (NO))

**Session Classification:** General presentations

Contribution ID: **10**

Type: **not specified**

## **Pion and kaon condensation. Cphd versus lattice**

*Tuesday 1 October 2019 10:30 (45 minutes)*

**Presenter:** Prof. ANDERSEN, Jens Oluf (NTNU)

**Session Classification:** General presentations

Contribution ID: 11

Type: **not specified**

## **Continuity from neutron matter to two-flavor quark matter with 1S0 and 3P2 superfluidity**

*Tuesday 1 October 2019 15:00 (45 minutes)*

**Presenter:** Prof. FUKUSHIMA, Kenji (The University of Tokyo)

**Session Classification:** General presentations

Contribution ID: 12

Type: **not specified**

## **Neutron stars as a laboratory for dense QCD matter**

*Tuesday 1 October 2019 13:30 (45 minutes)*

**Presenter:** Prof. VUORINEN, Aleksi (University of Helsinki)

**Session Classification:** General presentations

Contribution ID: 13

Type: **not specified**

## **Delineating the properties of matter in cold, dense QCD**

*Tuesday 1 October 2019 14:15 (45 minutes)*

**Presenter:** Prof. KOJO, Toru (Central China Normal University)

**Session Classification:** General presentations

Contribution ID: 14

Type: **not specified**

# Binary Hybrid Star Mergers and the Phase Diagram of Quantum Chromodynamics

*Wednesday 2 October 2019 08:30 (45 minutes)*

**Presenter:** HANAUSKE, Matthias

**Session Classification:** General presentations

Contribution ID: 15

Type: **not specified**

## **Dense nuclear matter and gravitational waves**

*Wednesday 2 October 2019 09:15 (45 minutes)*

**Presenter:** NIELSEN, Alex (University of Stavanger)

**Session Classification:** General presentations



Contribution ID: 16

Type: **not specified**

## **"Quo vadis QCD" Nuclear physics at present/future colliders and in the Universe**

*Tuesday 1 October 2019 16:45 (1 hour)*

**Session Classification:** General presentations

Contribution ID: 17

Type: **not specified**

# Quantum tunneling, real-time dynamics and Picard-Lefschetz thimbles

*Wednesday 2 October 2019 10:30 (45 minutes)*

**Presenter:** TRANBERG, Anders

**Session Classification:** General presentations

Contribution ID: **18**

Type: **not specified**

## **Quark and gluon contribution to the QCD trace anomaly**

**Presenter:** Dr HATTA, Yoshitaka (BNL)

**Session Classification:** General presentations

Contribution ID: 19

Type: **not specified**

## **Forward physics at the ALICE experiment**

*Wednesday 2 October 2019 11:15 (45 minutes)*

**Presenter:** ROHRICH, Dieter (Department of Physics & Technology-University of Bergen)

**Session Classification:** General presentations

Contribution ID: 20

Type: **not specified**

## **Emergence of collectivity in pp, pA and AA collisions at the LHC**

**Presenter:** KURKELA, Eero Aleks (CERN)

**Session Classification:** General presentations

Contribution ID: 21

Type: **not specified**

## **What can quarkonium tell us about the QGP?**

*Monday 30 September 2019 14:15 (45 minutes)*

**Presenter:** Dr AKAMATSU, Yukinao (Osaka University)

**Session Classification:** General presentations

Contribution ID: 22

Type: **not specified**

## **Quark and gluon contribution to the QCD trace anomaly**

*Tuesday 1 October 2019 11:15 (45 minutes)*

**Presenter:** HATTA, Yoshitaka (BNL)

**Session Classification:** General presentations