

**Session Program**

**30 September 2019 to 2 October 2019**

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

***General presentations***

# Monday 30 September

13:30

## General presentations: Monday afternoon

Session | Location:

13:30–14:15 **Towards dependable real-time dynamics from lattice QCD**

**Speaker**

Alexander Rothkopf

14:15–15:00 **What can quarkonium tell us about the QGP?**

**Speaker**

Dr Yukinao Akamatsu

15:00–15:45 **Quo vadis quarkonium measurements as probe of the QCD medium**

**Speaker**

Ionut Cristian Arsene

15:45

16:15

## General presentations: Monday evening 2

Session | Location:

16:15–17:00 **Probing space-time structure and thermalization of QCD jets**

**Speaker**

Konrad Tywoniuk

17:00–17:45

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

**Speaker**

Germano Nardini

18:15

# Tuesday 1 October

08:30

## General presentations: Tuesday morning 1

Session | Location:

08:30–09:15 **Emergence of collectivity in pp, pA and AA collisions at the LHC**

**Speaker**

Eero Aleksi Kurkela

09:15–10:00 **Real-time lattice simulations of overoccupied gluodynamics**

**Speaker**

Tuomas Lappi

10:00

10:30

## General presentations: Tuesday morning 2

Session | Location:

10:30–11:15 **Pion and kaon condensation. CphT versus lattice**

**Speaker**

Prof. Jens Oluf Andersen

11:15–12:00 **Quark and gluon contribution to the QCD trace anomaly**

**Speaker**

Yoshitaka Hatta

12:00

13:30

## General presentations: Tuesday afternoon

Session | Location:

13:30–14:15 **Neutron stars as a laboratory for dense QCD matter**

**Speaker**

Prof. Aleksi Vuorinen

14:15–15:00 **Delineating the properties of matter in cold, dense QCD**

**Speaker**

Prof. Toru Kojo

15:00–15:45

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

**Speaker**

Prof. Kenji Fukushima

15:45

16:15

## General presentations: Tuesday evening 2

Session | Location:

16:15–16:45 **"Why are we here?" A presentation of Norwegian activities**

16:45–17:45

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

18:15

# Wednesday 2 October

08:30

## General presentations: Wednesday morning

Session | Location:

08:30–09:15

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

**Speaker**

Matthias Hanauske

09:15–10:00

### Dense nuclear matter and gravitational waves

**Speaker**

Alex Nielsen

10:00

10:30

## General presentations: Wednesday morning 2

Session | Location:

10:30–11:15

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

**Speaker**

Anders Tranberg

11:15–12:00

### Forward physics at the ALICE experiment

**Speaker**

Dieter Rohrlich

12:00