Session Program

30 September 2019 to 2 October 2019

Quo vadis QCD theory: heavy-ion collion 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: Tueday 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-Lefshetz thimbles**

Speaker
Anders Tranberg

11:15–12:00 **Forward physics at the ALICE experiment**

Speaker
Dieter Rohrich

12:00