Session Program

1–6 Aug 2022

XVth Quark Confinement and the Hadron Spectrum

Parallels Track H

University of Stavanger, Campus Ullandhaug

Monday 1 August

14:00

Parallels Track H: Monday I
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Tommaso Dorigo, Phiala Shanahan, Sergei Gleyzer, Luca Tagliacozzo

14:00–14:30
Order parameters from persistent homology in non-Abelian lattice gauge theory
Speaker
Daniel Spitz

14:30–15:00 **Applications of Lattice Gauge Equivariant Neural Networks**
Speaker
Matteo Favoni

15:00

15:40

Parallels Track H: Monday II
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Luca Tagliacozzo, Tommaso Dorigo, Sergei Gleyzer, Phiala Shanahan

15:40–16:10
Unsupervised learning universal critical behavior via the intrinsic dimension
Speaker
Tiago Mendes Santos

16:10–16:40 **Optimal Test Statistics**
Speaker
Lukas Heinrich

17:00

Tuesday 2 August

14:00

15:00

Parallels Track H: Tuesday I
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Sergei Gleyzer, Luca Tagliacozzo, Tommaso Dorigo, Phiala Shanahan

15:40

17:00

Parallels Track H: Tuesday II
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Sergei Gleyzer, Phiala Shanahan, Tommaso Dorigo, Luca Tagliacozzo

Thursday 4 August

14:00

Parallels Track H: Thursday I
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Tommaso Dorigo, Sergei Gleyzer, Phiala Shanahan, Luca Tagliacozzo

14:00–14:30 **Random quantum circuits**

Speaker
Judah Unmuth-Yockey

14:30–15:00

A simple vertex reconstruction algorithm using Quantum Computing techniques

Speaker
Francisco Matorras Cuevas

15:00

15:40

Parallels Track H: Thursday II
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Luca Tagliacozzo, Tommaso Dorigo, Sergei Gleyzer, Phiala Shanahan

15:40–16:00 **TomOpt: Differential Optimisation for Muon Tomography**

Speaker
Dr Giles Strong

16:00–16:30 **Implicit quantile networks for generative models for emulation**

Speaker
Michelle Kuchera

16:30–17:00

Improving Multi-Hit Resolution for Delay Line Detectors with Deep Learning

Speaker
Marco Knipfer

17:00

Friday 5 August

14:00

15:00

Parallels Track H: Friday I
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Phiala Shanahan, Tommaso Dorigo, Luca Tagliacozzo, Sergei Gleyzer

15:40

17:00

Parallels Track H: Friday II
Session | **Location:** UiS, AR G-201, On the first floor above the ground floor in the AR building | **Conveners:** Sergei Gleyzer, Tommaso Dorigo, Phiala Shanahan, Luca Tagliacozzo