

## **Session Program**

**2-7 Jan 2020**

# **Spatind 2020 - Nordic conference on Particle Physics**

***submitted talks***

Skeikampen, Thon Hotel

# Friday 3 January

17:00

## submitted talks

Session | Location: Skeikampen, Thon Hotel

17:00-17:20 **Releasing 13 TeV Open Data from the ATLAS experiment**

**Speaker**

Even Simonsen Haaland

17:20-17:40

**Analytical reinterpretation of ATLAS dark matter mediator searches with final-state jets**

**Speaker**

Eric Edward Corrigan

17:40-18:00 **Searches for charged Higgs bosons at CMS**

**Speaker**

Santeri Laurila

18:00-18:20 **IceCube - Particle Physics and Astrophysics on Ice**

**Speaker**

D. Jason Koskinen

18:20-18:40

**Search for new resonances decaying into a top-anti-top pair with the ATLAS detector**

**Speaker**

Trine Poulsen

18:40-19:00 **Search for a Dark Jet Resonances Using Substructure with ATLAS**

**Speaker**

Eva Hansen

19:00

20:30

## submitted talks

Session | Location: Skeikampen, Thon Hotel

20:30-20:50 **Dirac vs. Majorana HNLs (and their oscillations) at SHiP**

**Speaker**

Jean-Loup Tastet

20:50-21:10 **Rethinking searches for new physics at the LHC**

**Speaker**

Flavia de Almeida Dias

21:10-21:30 **QCD at the high-energy frontier**

**Speaker**

Tuomas Lappi

21:30

# Saturday 4 January

17:00

## submitted talks

Session | Location: Skeikampen, Thon Hotel

17:00-17:20

### **Hadrons in gravitational field, shear forces and viscosity in relativistic Heavy Ion collisions**

**Speaker**

Oleg Teryaev

17:20-17:40

### **The HIBEAM/NNbar Experiment**

**Speaker**

Katherine Dunne

17:40-18:00

### **The Higgs Width in the SMEFT**

**Speakers**

Tyler Corbett, Tyler Corbett

18:00-18:20

### **The Oslo plasma lens at the CERN electron test accelerator**

**Speaker**

Erik Adli

18:20-18:40

### **Status of the ATLAS ITk Strip Detector for the HL-LHC**

**Speaker**

Craig Wiglesworth

18:40-19:00

### **Neutrino CP Violation with the European Spallation Source neutrino Super Beam project**

**Speaker**

Eirik Gramstad

19:00

20:30

## submitted talks

Session | Location: Skeikampen, Thon Hotel

20:30-20:50

### **Early equilibration, phase diagram and freeze-out in relativistic heavy ion collisions**

**Speaker**

Evgeny Zabrodin

20:50-21:10

### **Search for the electroweak production of charginos and sleptons decaying into final states with two electrons or muons in proton-proton collisions at $s = 13$ TeV with the ATLAS detector**

**Speaker**

Helén Persson

21:30

21:10-21:30

### A multi-TeV gamma-gamma collider based on plasma

#### Speaker

Erik Adli

# Sunday 5 January

17:00

## submitted talks

Session | Location: Skeikampen, Thon Hotel

17:00-17:20 **Search for electroweakinos with small  $\Delta m$  using XGBoost**

**Speaker**

Knut Oddvar Høie Vadla

17:20-17:40

### Monte Carlo reweighting: Signal interpolation for ATLAS Dark Matter searches

**Speaker**

Kristian L. Bjørke

17:40-18:00

### Strangeness production in small systems - from revolution to resolution

**Speaker**

Peter Christiansen

18:00-18:20

### From Little Bang to Mini Bang: studying the primordial fluid at the LHC

**Speaker**

Dr You Zhou

18:20-18:40

### To catch a long-lived particle

**Speaker**

Rebeca Gonzalez Suarez

18:40-19:00

### Hardware-based track reconstruction for the ATLAS Trigger and Data Acquisition Phase-II system

**Speaker**

Alessandra Camplani

19:00

20:30

## submitted talks

Session | Location: Skeikampen, Thon Hotel

20:30-20:50

### Quasistable charginos in ultraperipheral proton-proton collisions at the LHC

**Speaker**

Mikhail Vysotsky

20:50-21:10

### Search for high-mass dilepton resonances using 139 $\text{fb}^{-1}$ of $\text{pp}$ collision data collected at $\sqrt{s} = 13\text{TeV}$ with the ATLAS detector

**Speaker**

Mr Simen Hellesund

21:10-21:30

### Antinuclei as a Signature for Dark Matter

21:30

**Speaker**

Jonas Tjemsland

## Monday 6 January

17:00

### submitted talks

Session | Location: Skeikampen, Thon Hotel

17:00-17:20 **Precision neutron beta decay experiments as a probe of BSM physics**

**Speaker**

Dr Dagmara Rozpedzik

17:20-17:40 **Radiation hard pixel '3D' sensors for use in ATLAS-ITk at LHC**

**Speakers**

Bjarne Stugu, Bjarne Stugu

17:40-18:00

**Reconstructing the energy of electrons and photons using convolutional neural networks**

**Speaker**

Mr Frederik Faye

18:00-18:20 **Gaussian processes versus parametric background modeling**

**Speaker**

Mr Simon Millerjord

18:20-18:40 **Module production for ATLAS Inner Tracker (ITk) upgrade**

**Speaker**

Jonas Steentoft

18:40-19:00 **Accelerating new physics searches with XSEC**

**Speaker**

Jeriek Van den Abeele

19:00