

Session Program

16-18 Oct 2018



LUND
UNIVERSITY

Partikeldagarna 2018 (Lundmarksalen) + Discussion Session on the Swedish Input to the European Strategy of Particle Physics (Sal A)

Partikeldagarna 2018

Lund university, Lundmarksalen
Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund

Tuesday 16 October

10:15

Partikeldagarna 2018: Morning session

Session |

Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund |

Convener: Yvonne Becherini

10:15-10:30

The Next Generation Radio Detector for Extermely High Energy Neutrinos (12'+3')

Speaker

Allan Hallgren

10:30-10:45

Deciphering the next supernova using neutrinos (12'+3')

Speaker

Dr Erin O'Sullivan

10:45-11:00

The PTOLEMY dark matter and relic neutrino detection project (12'+3')

Speaker

Carlos de los Heros

11:00-11:15

A Search for Magnetic Monopoles with IceCube (12'+3')

Speaker

Alexander Burgman

11:15-11:30

Cosmic Neutrinos from a Blazar (12'+3')

Speaker

Chad Finley

11:30-11:45

Freeze-out and freeze-in relic density for a light vector mediator (12'+3')

Speaker

Isabelle John

11:45

13:45

Partikeldagarna 2018: Afternoon session 1

Session |

Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund |

Convener: Chad Finley

13:45-14:00

Insights on the particle acceleration at the core of Centaurus A (12'+3')

Speaker

Yvonne Becherini

14:00-14:15

Monitoring the energetic Universe with the ALTO gamma-ray observatory (12'+3')

Speaker

Yvonne Becherini

14:15-14:30 The ESSnuSB neutrino beam and its accumulator (12'+3')**Speaker**

Dr Ye Zou

14:30-14:45 MAX IV - status and brief inside view (12'+3')**Speaker**

Bernhard Meirose

14:45-15:00 Space Charge Tracking in Accelerators (12'+3')**Speaker**

Mr Benjamin Folsom

15:00-15:15 Building and test of ITk Strip modules (12'+3')**Speaker**

Geoffrey Mullier

15:15

15:45

Partikeldagarna 2018: Afternoon session 2**Session** |**Location:** Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund |**Convener:** Christian Ohm**15:45-16:00 The SHIFT project (12'+3')****Speaker**

Sara Strandberg

16:00-16:15 Charged Higgs searches in ATLAS (12'+3')**Speaker**

Max Fredrik Isacson

16:15-16:30**Combination of searches for Higgs boson pairs in pp collisions at 13 TeV with the ATLAS experiment (12'+3')****Speaker**

Petar Bokan

16:30-16:45**Results from a search for dijet resonances using only trigger-level jets at ATLAS (12'+3')****Speaker**

Per Alexander Ekman

16:45-17:00**Optimization Procedure in the Search for Spin-0 Supersymmetric Partner of Top Quark Using 120 fb⁻¹ of $\sqrt{s} = 13$ TeV pp Collisions using the ATLAS Detector (12'+3')****Speaker**

Stefio Yosse Andrean

17:00-17:15 Search for new physics with taus (12'+3')**Speaker**

Shi Qiu

17:15

Wednesday 17 October

08:30

Partikeldagarna 2018: Political talks

Session |

Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund |

Convener: Arnaud Ferrari

08:30–08:45 **ACCU report (15')**

Speakers

Sara Strandberg, Sara Strandberg

08:45–09:00 **IPPOG report (15')**

Speaker

Jonas Strandberg

09:00–09:15 **IUPAP report (15')**

Speaker

Johan Rathsman

09:15–09:30 **ECFA report (15')**

Speaker

David Milstead

09:30–09:45 **Council week (15')**

Speaker

Kerstin Jon-And

09:45–10:00 **High-school visits at CERN (15')**

Speakers

Emelie Sandved, Linn Enroth, Mats Persson

10:00–10:20 **VR+RFI (20')**

Speaker

Per Karlsson

10:20–10:30 **Discussion (10')**

10:30

11:00

Partikeldagarna 2018: Morning session

Session |

Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund |

Convener: Caterina Doglioni

11:00–11:25 **Summary of Swedish physics-analysis activities in ATLAS (20+5)**

Speaker

Ruth Pottgen

11:25–11:50 **Summary of Swedish upgrade activities in ATLAS (20+5)**

	<p>Speaker Christian Ohm</p>
	<p>11:50-12:05 Lund ALICE summary (12'+3')</p> <p>Speakers Peter Christiansen, David Silvermyr</p>
	<p>12:05-12:20 Exploring sub-GeV Dark Matter with LDMX (12'+3')</p> <p>Speaker Lene Kristian Bryngemark</p>
	<p>12:20-12:35 Complementarity in Dark Matter Searches (12'+3')</p> <p>Speaker Catena Riccardo</p>
	<p>12:35-12:50 Consequences of a XENONnT/LZ signal for the LHC and thermal dark matter production (12'+3')</p> <p>Speaker Martin Krauss</p>
12:50	
13:50	<p>Partikeldagarna 2018: Afternoon session 1</p> <p>Session Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund Convener: Riccardo Catena</p>
	<p>13:50-14:05 INSIGHTS: Learning to Learn (12'+3')</p> <p>Speaker Mr Nathan Daniel Simpson</p>
	<p>14:05-14:20 Tuning of Monte Carlo Event Generators (12'+3')</p> <p>Speaker Leif Gellersen</p>
	<p>14:20-14:35 Color Matrix Element Corrections in Herwig (12'+3')</p> <p>Speaker Malin Sjordahl</p>
	<p>14:35-14:50 QCD multiplet bases with arbitrary parton ordering (12'+3')</p> <p>Speaker Johan Thorén</p>
	<p>14:50-15:05 Constraining EFT operators in the top sector (12'+3')</p> <p>Speaker Nabila Shaikh</p>
15:05	
16:35	<p>Partikeldagarna 2018: Afternoon session 2</p> <p>Session Location: Lund university, Lundmarksalen, Department of Astronomy and Theoretical Physics, Lund University, Sölvegatan 27, Lund Convener: Roman Pasechnik</p>
	<p>16:35-16:50 Towards solving the proton spin puzzle (12'+3')</p>

Speaker

Gunnar Ingelman

16:50-17:05

Electromagnetic finite size effects to the hadronic vacuum polarisation (12'+3')

Speaker

Mr Nils Hermansson Truedsson

17:05-17:20

IR fitness of the effective potential in the \hbar -expansion (12'+3')

Speaker

Mr Andreas Ekstedt

17:20