

Session Program

8-11 Apr 2024

IOP Joint APP, HEPP and NP Annual Conference 2024

Plenary Session

The Spine, Liverpool

Monday 8 April

13:00

Plenary Session: Monday I

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Joost Vossebeld

13:00–13:15

Welcome

Speaker

Prof. Tim Jones

13:15–13:45

Higgs and SM Physics at the LHC (25'+5')

Speaker

Jonathon Mark Langford

13:45–14:15

BSM Physics at the LHC and HL-LHC upgrades (25'+5')

Speaker

Sara Alderweireldt

14:15–14:35

Anatomy of Hadron Collisions - And Challenges for the Future (17'+3')

Speaker

Prof. Peter Skands

14:35–14:55

Sustainability in the subatomic sciences (17'+3')

Speaker

Veronique Boisvert

15:00

15:45

Plenary Session: Monday - II

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Tara Shears

15:45–16:05

Particle Physics Strategy, the P5 Report. (17'+3')

Speaker

Christos Touramanis

Location

16:05–16:35

ALICE and the Heavy Ion Programme at CERN (25'+5')

Speaker

Marco Van Leeuwen

Location

16:35–17:05

Flavour Physics at the LHC and elsewhere (25'+5')

Speaker

Lucia Grillo

Location

The Spine, Level 13, Rooms 1 & 2

17:05–17:25

Hidden Sector Experiments (17'+3')

Speaker

Carl Gwilliam

18:00

Location

The Spine, Level 13, Rooms 1 & 2

17:25-17:45

The Proton EDM (17'+3')**Speaker**

Alex Keshavarzi

Location

The Spine, Level 13, Rooms 1 & 2

Tuesday 9 April

09:00

Plenary Session: Tuesday I

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Alison Mary Bruce

09:00–09:30 **Nuclear Structure with AGATA (25'+5')**

Speaker

Rosa Perez

09:30–09:50 **Recent advances in hadron structure at Jlab (17'+3')**

Speaker

David Hamilton

09:50–10:20 **Quantum Algorithms applied to nuclear structure (25'+5')**

Speaker

Paul Stevenson

10:20–10:50 **Novel Probes of Primordial Hot Quark Soup (25'+5')**

Speaker

Krishna Rajagopal

10:50

11:20

Plenary Session: Tuesday II

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Teppei Katori

11:20–11:40 **IoP APP early career prize winner's talk**

Speaker

Patrick Knights

11:40–12:10 **Dark Matter: Direct Search experiments and other approaches (25'_5)**

Speaker

Dr Amy Cottle

12:10–12:30 **Gravitational Wave Experiments (17'+3')**

Speaker

Giles Hammond

12:30–12:50 **Cosmic rays and cosmic neutrinos (17'+3')**

Speaker

Prof. Ryan Nichol

12:50

14:05

Plenary Session: Tuesday III

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Dr Marc Herve Rene Labiche

14:05–14:35 **Laser Spectroscopy of Super Heavy Elements (25'+5')**

Speaker

Premaditya Chhetri

14:35–14:55 **In-Source Laser Spectroscopy @ ISOLDE (17'+3')**

15:45

16:30

18:00

Speaker

James Cubiss

14:55-15:25

Combined gamma-ray and electron spectroscopy for studies of shape coexistence (25'+5')

Speaker

Janne Pakarinen

15:25-15:45

Neutrinoless double beta decay and absolute neutrino mass (17'+3')

Speaker

Ruben Saakyan

Plenary Session: Tuesday IV

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Christos Touramanis

16:30-17:00

Neutrino Oscillation Experiments (25'+5')

Speaker

Dr Luke Pickering

17:00-17:30

The Muon Physics Programme: g-2 puzzle, cLFV and EDM (25'+5')

Speaker

Saskia Charity

17:30-18:00

The UK QTFP programme (25'+5)

Speaker

Ian Shipsey

Wednesday 10 April

15:45

Plenary Session: STFC Town Meeting (ZOOM link : <https://liverpool-ac-uk.zoom.us/j/96367454867> Password: Town@IOP24)

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Karen Elizabeth Clifford

15:45–15:55 **Update from DSIT**

15:55–16:55 **Executive Chair Report - Mark Thomson (overview of STFC)**

Speakers

Mark Andrew Thomson, Mark Thomson

16:55–17:10 **Science Board (PPAN) Update - Keith Grainge**

17:10–17:25 **Report Particle Astrophysics Advisory Panel (PAAP)**

Speaker

Sergey Burdin

17:25–17:40 **Report Particle Physics Advisory Panel (PPAP)**

Speaker

Ruben Saakyan

17:40–17:55 **Report Nuclear Physics Advisory Panel (NPAP)**

Speaker

Jacek Dobaczewski

18:00

Thursday 11 April

09:00

Plenary Session: Thursday I

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Rolf-Dietmar Herzberg

09:00–09:20 **The 2024 NuPECC Long Range Plan (17'+3')**

Speaker

Eberhard Widmann

09:20–09:40

2023 IoP HEPP Early Career Prize winner's talk -- Physics opportunities at future colliders (17'+3')

Speaker

Sarah Louise Williams

09:40–10:10 **The future programme at Fermilab (25'+5')**

Speaker

Bonnie Fleming

10:10–10:40 **CERN: The future programme (25'+5')**

Speaker

Mike Lamont

10:40

11:10

Plenary Session: Thursday II

Session | **Location:** The Spine, Level 13, Rooms 1 & 2 | **Convener:** Joost Vossebeld

11:10–11:40 **The future programme at JPARC (25'+5')**

Speaker

Takashi Kobayashi

11:40–12:10 **The future programme at BNL (25'+5')**

Speaker

Joanne Hewett

12:10–12:40 **The ECFA DRD Programme (17'+3')**

Speaker

Chris Parkes

12:40–12:50 **Closing Remarks**

12:50