Session Program

Aug 18 – 24, 2024

XVIth Quark Confinement and the Hadron Spectrum

QCD and New Physics

Cairns, Queensland, Australia
Cairns Convention Centre

Mon, August 19

2:00 PM

QCD and New Physics: E1a (Parallel E)

Session | **Location:** M3 | **Convener:** Ross Young

2:00 – 2:30 PM

New Opportunities with Jefferson Lab at 22 GeV: Science at the Luminosty Frontier

Speaker
Cynthia (Thia) Keppel

2:30 – 3:00 PM

The conformal window of SU(3)

Speaker
Daniel Nogradi

3:00 – 3:30 PM

Recent $B^+ \rightarrow K^+ \nu \bar{\nu}$ Excess and Muon g-2 Illuminating Light Dark Sector with Higgs Portal

Speaker
Prof. Pyungwon Ko

3:30 PM

4:00 PM

QCD and New Physics: E1b (Parallel E)

Session | **Location:** M3 | **Convener:** Daniel Nogradi

4:00 – 4:20 PM

Break

4:20 – 4:40 PM

Constraining beyond the Standard Model nucleon isovector charges

Speaker
Dr James Zanotti

4:40 – 5:00 PM

Dispersive determinations of lattice HVP window quantities for muon g-2

Speaker
Kim Maltman

5:00 – 5:30 PM

Lattice QCD calculation of electroweak box contributions to superallowed nuclear and neutron beta decays

Speaker
Prof. Xu Feng

5:30 – 6:00 PM

Inclusive processes from lattice QCD: problems and opportunities

Speaker
Dr Shoji Hashimoto

6:00 PM

Tue, August 20

2:00 PM

QCD and New Physics: E2a (Parallel E)

Session | **Location:** M3 | **Convener:** Wolfgang Korsch

2:00 – 2:30 PM

Improved limits on lepton-flavor-violating decays of light pseudoscalars via spin-dependent $\mu\to e$ conversion in nuclei

Speaker
Martin Hoferichter

2:30 – 3:00 PM

Effective theory predictions for $\mu\rightarrow e$ conversion

Speaker
Evan Rule

3:00 – 3:30 PM

Exciting Prospects at Neutrino Detectors

Speaker
Prof. Jong-Chul Park

3:30 PM

Wed, August 21

2:00 PM

QCD and New Physics: E3a (Parallel E)

Session | **Location:** M3 | **Convener:** Giulia Ricciardi

2:00 – 2:30 PM

Ab initio nuclear structure calculations for new physics searches in ytterbium isotope shifts

Speaker
Matthias Heinz

2:30 – 3:00 PM

Constraints on axionlike particles from GW170817

Speaker
Steven Harris

3:00 – 3:30 PM

First results from FASER at the LHC

Speaker
Dr Daiki Hayakawa

3:30 – 4:00 PM

BSM discovery potential at Belle II

Speaker
Dr Karim Trabelsi

4:00 PM

Thu, August 22

2:00 PM

QCD and New Physics: E4b (Parallel E)

Session | **Location:** M3 | **Convener:** Rajan Gupta

2:00 – 2:30 PM

Lattice study of spectrum of the low-lying chimera baryons in Sp(4) gauge theory

Speaker
C.-J. David Lin

2:30 – 3:00 PM

Stealth Dark Matter

Speaker
Prof. George T. Fleming

3:00 – 3:30 PM

Confinement and False Vacuum Decay in Quantum Spin Chains

3:30 PM

4:00 PM

QCD and New Physics: E4c (Parallel E)

Session | **Location:** M6 | **Convener:** Susan Gardner

4:00 – 4:30 PM

analysis of electron (anti-)neutrino scattering on nucleons

Speaker
Giulia Ricciardi

4:30 – 4:50 PM

Precision predictions for future CEvNS experiments

Speaker
Jayden Newstead

4:50 – 5:10 PM

Axial vector form factors for neutrino-nucleus scattering from lattice QCD

Speaker
Dr Rajan Gupta

5:10 – 5:30 PM

The transverse momentum reconstruction and implications for the W-boson mass

Speaker
Tuhin Roy

5:30 PM