Session Program

Aug 18 – 24, 2024

XVIth Quark Confinement and the Hadron Spectrum

Plenary

Cairns, Queensland, Australia
Cairns Convention Centre

Mon, August 19

10:00 AM

Plenary: Plenary 1

Session | **Location:** Plenary 1&2 | **Convener:** Nora brambilla

10:00 – 10:30 AM

Quantum Computing: a future perspective for scientific computing

Speaker
Karl Jansen

10:30 – 11:00 AM

Hadron-Hadron Interactions from Lattice QCD: Theory meets Experiments

Speaker
Tetsuo Hatsuda

11:00 AM

11:30 AM

Plenary: Plenary 2

Session | **Location:** Plenary 1&2 | **Convener:** Dr Jianwei Qiu

11:30 AM – 12:00 PM

Experimental review of exotic states discoveries in the last 20 years

Speaker
Chengping Shen

12:00 – 12:30 PM

Strong Dynamics: A Treasure Trove for Standard Model Physics and Beyond

Speaker
Prof. Francesco Sannino

12:30 – 1:00 PM

The QCD phase structure and its signatures from functional approaches

Speaker
Fabian Rennecke

1:00 PM

Tue, August 20

10:00 AM

Plenary: Plenary 3

Session | **Location:** Plenary 1&2 | **Convener:** Jon-Ivar Skullerud

10:00 – 10:15 AM **IPPOG and spin-offs from particle and nuclear physics**

Speaker
Prof. Yiota Foka

10:15 – 10:30 AM

Bridging Scientists and Students with Regional School Partnerships

Speaker
Jackie Bondell

10:30 AM

11:00 AM

Plenary: Plenary 4

Session | **Location:** Plenary 1&2 | **Convener:** William Detmold

11:00 – 11:30 AM

Parton Distributions from Lattice and Impacts on Global QCD Analysis

Speaker
Prof. Huey-Wen Lin

11:30 AM – 12:00 PM **Femtoscopy for exotic hadrons and nuclei**

Speaker
Tetsuo Hyodo

12:00 – 12:30 PM

Neutron stars and Constraints for the Equation of State of Dense Matter

Speaker
Prof. Veronica Dexheimer

12:30 PM

Wed, August 21

9:00 AM

Plenary: Plenary 5

Session | **Location:** Plenary 1&2 | **Convener:** Ian Cloet

9:00 – 9:30 AM **Solving the strong CP problem**

Speaker
ALESSANDRO STRUMIA

9:30 – 10:00 AM **Functional methods for hadron spectroscopy**

Speaker
Gernot Eichmann

10:00 – 10:30 AM **Beta decay as probe of new physics**

Speaker
Andre Walker-Loud

10:30 AM

11:00 AM

Plenary: Plenary 6

Session | **Location:** Plenary 1&2 | **Convener:** Prof. Pyungwon Ko

11:00 – 11:30 AM **Physics Overview of J-PARC**

Speaker
Kazuya Aoki

11:30 AM – 12:00 PM **Review of muon g-2: lattice, dispersive, and data driven results**

Speaker
Finn Stokes

12:00 PM

Thu, August 22

9:00 AM

Plenary: Plenary 7

Session | **Location:** Plenary 1&2 | **Convener:** Prof. Nicole Bell

9:00 – 9:30 AM **Three-hadron systems**

Speaker
Raul Briceno

9:30 – 10:00 AM

Recent experimental results on QGP formation and properties from the LHC

Speaker
Raimond Snellings

10:00 – 10:30 AM **A tribute to Alexander Andrianov: a life for physics**

Speaker
Domenec Espriu Climent

10:30 AM

Fri, August 23

9:00 AM

Plenary: Plenary 8

Session | **Location:** Plenary 1&2 | **Convener:** Gastao Krein

9:00 – 9:30 AM

Complex potential and open system applications in heavy-ion and cold atoms

Speaker
Yukinao Akamatsu

9:30 – 10:00 AM **Hadron Structure: Perspective and Insights**

Speaker
Craig Roberts

10:00 – 10:30 AM **Open Questions in Statistical Practice for Particle Physics**

Speaker
Francisco Matorras

10:30 AM

11:00 AM

Plenary: Plenary 9

Session | **Location:** Plenary 1&2 | **Convener:** Hideo Suganuma

11:00 – 11:30 AM **Lattice and phenomenology of the Quark Gluon Plasma**

Speaker
Claudia Ratti

11:30 AM – 12:00 PM

Hadronic vacuum polarization and some atomic binding effects relevant for the MUonE experiment

Speaker
Prof. Mark Wise

12:00 PM

2:00 PM

Plenary: Plenary 10

Session | **Location:** Plenary 1&2 | **Convener:** C.-J. David Lin

2:00 – 2:30 PM **In-medium heavy-quark interactions from lattice QCD**

Speaker
Dr Johannes Heinrich Weber

2:30 – 3:00 PM

Perturbation theory, power corrections, renormalons, and precise extraction of quark masses and α_s

Speaker
Andreas Kronfeld

3:00 PM

3:30 PM

Plenary: Plenary 11

Session | **Location:** Plenary 1$2 | **Convener:** Michael Creutz

3:30 – 4:00 PM

Nucleon charges from Lattice QCD and their Implications for BSM Physics

Speaker
Rajan Gupta

Location
Plenary 1$2

4:00 – 4:30 PM

30 years highlight of NREFTs for quarkonium

Speaker
Antonio Vairo

Location
Plenary 1$2

4:30 – 4:45 PM

Carlos Guaraldo in memoriam

Speaker
Catalina Curceanu

4:45 – 5:15 PM

Summary Talk

Speaker
Nora brambilla

Location
Plenary 1$2

5:15 PM