

Session Program

18-24 Aug 2024



XVth Quark Confinement and the Hadron Spectrum

Plenary

Cairns, Queensland, Australia
Cairns Convention Centre

Monday 19 August

10:00

Plenary: Plenary 1

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

10:00-10:30 **Quantum Computing: a future perspective for scientific computing**

Speaker
Karl Jansen

10:30-11:00

Hadron-Hadron Interactions from Lattice QCD: Theory meets Experiments

Speaker
Tetsuo Hatsuda

11:00

11:30

Plenary: Plenary 2

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

11:30-12:00 **Experimental review of exotic states discoveries in the last 20 years**

Speaker
Chengping Shen

12:00-12:30

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

Speaker
Prof. Francesco Sannino

12:30-13:00

The QCD phase structure and its signatures from functional approaches

Speaker
Fabian Rennecke

13:00

Tuesday 20 August

10:00

Plenary: Plenary 3

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

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

Speaker

Prof. Yiota Foka

10:30

10:15-10:30 **Bridging Scientists and Students with Regional School Partnerships**

Speaker

Jackie Bondell

11:00

Plenary: Plenary 4

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

11:00-11:30 **Parton Distributions from Lattice and Impacts on Global QCD Analysis**

Speaker

Prof. Huey-Wen Lin

11:30-12:00 **Femtoscopy for exotic hadrons and nuclei**

Speaker

Tetsuo Hyodo

12:00-12:30

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

Speaker

Prof. Veronica Dexheimer

12:30

Wednesday 21 August

09:00

Plenary: Plenary 5

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

09:00-09:30 **Solving the strong CP problem**

Speaker

ALESSANDRO STRUMIA

09:30-10:00 **Functional methods for hadron spectroscopy**

Speaker

Gernot Eichmann

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

Speaker

Andre Walker-Loud

10:30

11:00

Plenary: Plenary 6

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

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

Speaker

Kazuya Aoki

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

Speaker

Finn Stokes

12:00

Thursday 22 August

09:00

Plenary: Plenary 7

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

09:00–09:30 **Three-hadron systems**

Speaker

Raul Briceno

09:30–10:00

Recent experimental results on QGP formation and properties from the LHC

Speaker

Raimond Snellings

10:00–10:30

A tribute to Alexander Andrianov: a life for physics

Speaker

Domenec Espriu Climent

10:30

Friday 23 August

09:00

Plenary: Plenary 8

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

09:00–09:30

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

Speaker

Yukinao Akamatsu

09:30–10:00

Hadron Structure: Perspective and Insights

Speaker

Craig Roberts

10:00–10:30

Open Questions in Statistical Practice for Particle Physics

Speaker

Francisco Matorras

10:30

11:00

Plenary: Plenary 9

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

11:00–11:30

Lattice and phenomenology of the Quark Gluon Plasma

Speaker

Claudia Ratti

11:30–12:00

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

Speaker

Prof. Mark Wise

12:00

14:00

Plenary: Plenary 10

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

14:00–14:30

In-medium heavy-quark interactions from lattice QCD

Speaker

Dr Johannes Heinrich Weber

14:30–15:00

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

Speaker

Andreas Kronfeld

15:00

15:30

Plenary: Plenary 11

Session | Location: Plenary 1&2 | Convener: Michael Creutz

15:30–16:00

Nucleon charges from Lattice QCD and their Implications for BSM Physics

Speaker
Rajan Gupta

Location
Plenary 1\$2

16:00-16:30 **30 years highlight of NREFTs for quarkonium**

Speaker
Antonio Vairo

Location
Plenary 1\$2

16:30-16:45 **Carlos Guaraldo in memoriam**

Speaker
Catalina Curceanu

Location

16:45-17:15 **Summary Talk**

Speaker
Nora brambilla

Location
Plenary 1\$2

17:15