Session Program

18-24 Aug 2024



XVIth Quark Confinement and the Hadron Spectrum

Plenary

Cairns, Queensland, Australia Cairns Convention Centre

Monday 19 August

10:00 Plenary: Plenary 1 $\textbf{Session} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Location:} \hspace{0.2cm} \textbf{Plenary 1\&2} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Convener:} \hspace{0.2cm} \textbf{Nora brambilla}$ 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

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Tuesday 20 August

10:00 **Plenary: Plenary 3** $\textbf{Session} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Location:} \hspace{0.2cm} \textbf{Plenary 1\&2} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Convener:} \hspace{0.2cm} \textbf{Jon-Ivar Skullerud}$ 10:00-10:15 IPPOG and spin-offs from particle and nuclear physics Speaker Prof. Yiota Foka **Bridging Scientists and Students with Regional School Partnerships** 10:15-10:30 Speaker Jackie Bondell 10:30 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

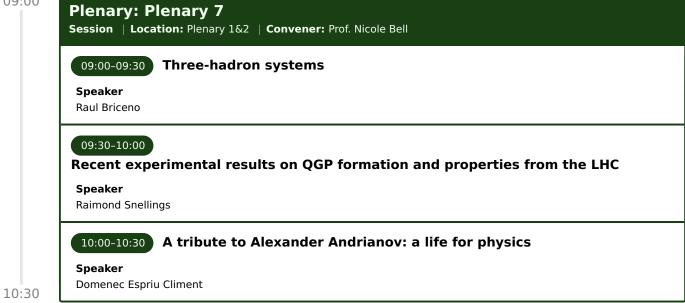
Wednesday 21 August

09:00 Plenary: Plenary 5 $\textbf{Session} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Location:} \hspace{0.2cm} \textbf{Plenary 1\&2} \hspace{0.2cm} | \hspace{0.2cm} \textbf{Convener:} \hspace{0.2cm} \textbf{lan Cloet}$ 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



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

Yukinao Akamatsu

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 30 years highlight of NREFTs for quarkonium 16:00-16:30 Speaker Antonio Vairo Location Plenary 1\$2 **Carlos Guaraldo in memoriam** 16:30-16:45 Speaker Catalina Curceanu Location 16:45-17:15 **Summary Talk** Speaker

17:15

Nora brambilla

Location Plenary 1\$2