

Session Program

18-24 Aug 2024



XVth Quark Confinement and the Hadron Spectrum

Heavy Quarks

Cairns, Queensland, Australia
Cairns Convention Centre

Monday 19 August

14:00

Heavy Quarks: C1a (Parallel C)

Session | **Location:** Plenary 2 | **Convener:** Francesco Giacomo Knechtli

14:00–14:30 **Status and Prospects of Studies on Exotic Hadrons at Belle II**

Speaker

Bruce Donald Yabsley

14:30–15:00 **Charm mesons, charmonium resonances and exotics from lattice QCD**

Speaker

Christopher Thomas

15:00–15:30 **One Born Oppenheimer Effective Theory to rule all Exotics**

Speaker

Abhishek Mohapatra

15:30

16:00

Heavy Quarks: C1b (Parallel C)

Session | **Location:** Plenary 2 | **Convener:** Antonio Vairo

16:00–16:20 **Properties of X(3872) from hadronic potentials coupled to quarks**

Speaker

Ibuki Terashima

16:20–16:40 **Tetraquark equations**

Speaker

Dr Boris Blankleider

16:40–17:00

General behavior of near-threshold hadron scattering for exotic hadrons

Speaker

Katsuyoshi Sone

17:00–17:30 **Quark confinement in multi-quark exotic hadrons in the quark model**

Speaker

Makoto Oka

17:30–18:00 **Heavy hadrons in a chiral-diquark picture**

Speaker

Dr Kei Suzuki

18:00

Tuesday 20 August

14:00

Heavy Quarks: C2a (Parallel C)

Session | Location: Plenary 2 | Convener: Dr Roberto Mussa

14:00–14:30

How many vector charmonium(-like) states sit in the energy range from 4.2 to 4.35 GeV?

Speaker

Qian Wang

14:30–15:00

Mixing of heavy and light quarks in charmonium and light mesons

Speaker

Francesco Giacomo Knechtli

15:00–15:30

Electromagnetic and axial-vector structure of singly heavy baryons in a pion mean-field approach

Speaker

Hyun-Chul Kim

15:30

16:00

Heavy Quarks: C2b (Parallel C)

Session | Location: Plenary 2 | Convener: Makoto Oka

16:00–16:20

Diquarks in lattice QCD

Speaker

Anthony Sebastian Francis

16:20–16:40

Spectator effects in inclusive lifetimes of heavy hadrons

Speaker

Joshua Lin

16:40–17:00

SU(3) gauge-fermion systems with fundamental flavors

Speaker

Oliver Witzel

17:00–17:30

Heavy Quarks and the QCD Coupling

Speaker

Tomasz Korzec

17:30

Wednesday 21 August

14:00

Heavy Quarks: C3aI (Parallel C)

Session | **Location:** Plenary 2 | **Convener:** Hee Sok Chung

14:00–14:30 **Narrow Spectra in Heavy Quark Systems**

Speaker

Estia Eichten

14:30–15:00

Dipion transitions in heavy quarkonium high excitations and heavy quarkonium hybrids

Speaker

Joan Soto

15:00–15:30 **Quark mass dependence of charmed mesons**

Speaker

Raquel Molina Peralta

15:30–16:00 **Quarkonium in Lattice QCD**

Speaker

Brian Colquhoun

16:00

16:30

Heavy Quarks: C3bI (Parallel C)

Session | **Location:** Plenary 2 | **Convener:** Jia-jun Wu

16:30–17:00

Resummation of threshold double logarithms in inclusive production of heavy quarkonium

Speaker

Hee Sok Chung

17:00–17:30

Resolving negative cross section of quarkonium hadroproduction using soft gluon factorization

Speaker

AnPing Chen

17:30–17:50

Multiplicity-dependent heavy flavour production at the LHCb experiment

Speaker

Jake Lane

17:50–18:10

The first evidence of CP violation in the $B_s \rightarrow j/\psi \phi$ system, obtained by CMS

Speaker

Enrico Lusiani

18:30

18:10-18:30

Quarkonium Productions in e^+e^- Collider with their QCD calculations up to NNLO

Speaker

Prof. Jianxiong Wang

16:30

Heavy Quarks: C3bII (Parallel C)

Session | Location: M3 | Convener: Christopher Thomas

16:30-17:00

Optimized two-loop QCD correction to exclusive double-J/psi production at the B factories

Speaker

Wen-Long Sang

17:00-17:30

Study of X(2370) at BESIII

Speaker

Dr Peng Zhang

17:30-17:50

First observation of the $\eta \rightarrow 4\mu$ decay with the CMS detector

Speaker

Prof. Roberto Rossin

17:50-18:10

Lee-Yang zeros in heavy-quark QCD

Speaker

Masakiyo Kitazawa

18:10-18:30

Near-threshold Heavy-Strange mesons from Lattice QCD and Hamiltonian Effective Field Theory

Speaker

GUANGJUAN WANG

18:30

Thursday 22 August

11:00

Heavy Quarks: C4a (Parallel C)

Session | Location: Plenary 2 | Convener: Wei Wang

11:00–11:20

Internal structure of T_{cc} and $X(3872)$ by using compositeness

Speaker

Tomona Kinugawa

11:20–11:40

Doubly charmed tetraquark T_{cc} from lattice QCD

Speaker

Yan Lyu

11:40–12:00

Mass spectra of doubly charm pentaquark states

Speaker

Wei Chen

12:00–12:30

Hadronic Molecule Effective Field Theory for T_{cc}^+

Speaker

Thomas Mehen

12:30–13:00

Study of T_{cc} and $X(3872)$

Speaker

Jia-jun Wu

13:00

14:00

Heavy Quarks: C4b (Parallel C)

Session | Location: Plenary 2 | Convener: Thomas Mehen

14:00–14:30

T_{cc} from finite volume energy levels: the left-hand cut problem and its solution

Speaker

Lu Meng

14:30–15:00

Quarkonium Polarization Transport in Medium from Open Quantum Systems and Effective Field Theories

Speaker

Di-Lun Yang

15:00–15:30

Break

15:30

16:00

Heavy Quarks: C4c (Parallel C)

Session | Location: Plenary 2 | Convener: Dr K. Utku Can

16:00–16:30

Spectroscopic study of heavier quark baryons using hadron beam at J-PARC

Speaker
Kotaro Shirotori

16:30–16:50 **Di-J/psi structures from the quark Pauli-blocking effect**

Speaker
Sachiko Takeuchi

16:50–17:10 **Heavy meson LCDA from lattice QCD**

Speaker
Wei Wang

17:10–17:30 **Break (no talks)**

17:30