

Session Program

18-24 Aug 2024



XVIth Quark Confinement and the Hadron Spectrum

Light Quarks

Cairns, Queensland, Australia
Cairns Convention Centre

Monday 19 August

14:00

Light Quarks: B1a (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Tetsuo Hatsuda

14:00–14:30 **Recent results from GlueX**

Speaker

Peter Hurck

14:30–15:00

Lattice extraction of the TMD soft function and the CS kernel using for the Wilson line an auxiliary fields approach

Speaker

C.-J. David Lin

15:00–15:30

Parton structure from JAM global QCD analysis

Speakers

Wally Melnitchouk, Wally Melnitchouk

15:30

16:00

Light Quarks: B1b (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Prof. Bernhard Ketzer

16:00–16:20

Light scalar mesons in semileptonic decay of charm meson at BESIII

Speaker

Dr Shulei Zhang

16:20–16:40

Linear relation between the Gluon EMC effect and short-range correlation

Speaker

Shuai Zhao

16:40–17:00

Precision measurements with kaon and pion decays at the NA62 experiment at CERN

Speaker

Tomáš Husek

17:00–17:30

Revealing the transverse force distributions in the nucleon from lattice QCD

Speaker

Ross Young

17:30–18:00

Longitudinal and transverse PDFs of hadrons - from COMPASS to AMBER

Speaker

Dr Bakur Parsamyan

18:00

Tuesday 20 August

14:00

Light Quarks: B2a (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Andreas Kronfeld

14:00–14:30

The current JLab 12 GeV and future EIC research programs

Speaker

Dr Jianwei Qiu

14:30–15:00

Gluonic Energy-Momentum Tensor Form Factors of the Proton

Speaker

Zein-Eddine Meziani

15:00–15:30

New results on the determination of α_s from hadronic tau decay data

Speaker

Kim Maltman

15:30

16:00

Light Quarks: B2b (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Dr James Zanotti

16:00–16:20

Understanding the nature of the Delta(1600) Resonance

Speaker

Dr Curtis Abell

16:20–16:40

Gravitational Form Factors of the Proton

Speaker

Latifa Elouadrhiri

16:40–17:00

NNLO QCD Corrections to Pion EM form factors

Speaker

Long-Bin Chen

17:00–17:30

Nucleon electric polarizabilities and nucleon-pion scattering from lattice QCD

Speaker

Xu Feng

17:30

Wednesday 21 August

14:00

Light Quarks: B3aI (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Adam Szczepaniak

14:00–14:30

Form Factors of Light Pseudoscalar Mesons - A Schwinger-Dyson Equations Perspective

Speaker

Adnan Bashir

14:30–15:00

Recent results on baryon spectroscopy at ELSA and MAMI

Speaker

Ms Farah Afzal

15:00–15:30

Spectroscopy of Strange Mesons with COMPASS and AMBER

Speaker

Stefan Wallner

15:30–16:00

Higher moments of parton distribution functions using gradient flow

Speaker

Dimitra Pefkou

16:00

16:30

Light Quarks: B3bI (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Dr Zhan-Wei Liu

16:30–17:00

Light QCD exotics at BESIII

Speaker

Beijiang Liu

17:00–17:30

Pion and kaon electromagnetic and gravitational form factors

Speaker

José Rodríguez Quintero

17:30–17:50

Gravitational form factors of the nucleon and their mechanical structure: Twist-2 case

Speaker

Hyun-Chul Kim

17:50–18:10

Study of the sub-leading twist GTMD $E_{21}^{\nu}(x, p_{\perp}, \Delta_{\perp}, \theta)$ for proton in light-front quark-diquark model.

Speaker

Harleen Dahiya

18:10–18:30

Compton Amplitude of the Pion using Feynman-Hellmann

Speaker

Jordan Mckee

18:30

Thursday 22 August

11:00

Light Quarks: B4a1 (Parallel B)

Session | **Location:** M2 | **Convener:** Peter Hurck

11:00–11:20 Pole trajectories of the $\Lambda(1405)$ towards the SU(3) limit

Speaker

Raquel Molina Peralta

11:20–11:40 Recent results of Baryon electromagnetic form factors at BESIII

Speaker

Mr Hua Shi

11:40–12:00

Radiative modes $K^+ \rightarrow \pi^+ \gamma^* \gamma^{(*)}$ and $K^+ \rightarrow \pi^+ \ell \ell^+ \ell \ell^- (\gamma)$ decays

Speaker

Tomáš Husek

12:00–12:30

Triangle singularity in the $J/\psi \rightarrow \phi \pi^+ a_0^- (\pi^- \eta), \phi \pi \pi^- a_0^+ (\pi^+ \eta)$ decays

Speaker

Wei-Hong Liang

12:30–13:00

Precision Studies of the Neutron Spin Structure using a Polarized Helium-3 Target at Jefferson Lab

Speaker

Wolfgang Korsch

13:00

11:00

Light Quarks: B4aII (Parallel B)

Session | **Location:** Plenary 1 | **Convener:** Gernot Eichmann

11:00–11:20

Multi-nucleon matrix elements on the lattice with e-graph optimised Wick contractions and the Feynman-Hellmann theorem

Speaker

Nabil Humphrey

11:20–11:40

Electromagnetic properties and hadron structures

Speaker

Dr Zhan-Wei Liu

11:40–12:00

Polyakov loop and QCD equation of state

Speaker

Yi Lu

12:00–12:30

Spatial imaging of the proton from a light-front Hamiltonian approach**Speaker**

Xingbo Zhao

12:30–13:00

Isospin violation effects in the pion-nucleon sigma-term**Speaker**

Martin Hoferichter

13:00

14:00

Light Quarks: B4b (Parallel B)**Session** | **Location:** Plenary 1 | **Convener:** Chengping Shen

14:00–14:30

Recent Progrès In Searches for Light Exotic Hybrids**Speaker**

Adam Szczepaniak

14:30–15:00

Direct Measurement of Radiative Photons in PRad**Speaker**

Chao Peng

15:00–15:30

The parity-odd structure function of the nucleon from the Compton amplitude in lattice QCD**Speaker**

Dr K. Utku Can

15:30

16:00

Light Quarks: B4cl (Parallel B)**Session** | **Location:** Plenary 1 | **Convener:** Mark Wise

16:00–16:30

Study of the $f_0(1710)$ and $a_0(1710)$ states**Speaker**

Chu-Wen Xiao

16:30–16:50

Measurement of Polarization of Ξ^- Production at $\sqrt{s}=2.15$ GeV/c²**Speaker**

Byungmin Kang

16:50–17:10

Double-Strangeness Production in (K^-, K^+) Reaction**Speaker**

Wooseung Jung

17:10–17:30

Strange sea quark-gluon effect to the charge radii and quadrupole moment of nucleons**Speaker**

Ms Preeti Bhall

17:30

16:00

Light Quarks: B4cII (Parallel B)**Session** | **Location:** M3 | **Convener:** Kim Maltman

16:00–16:30

Gluons from the Dressing of Quarks: Parton Momentum Fraction, Spin, and Mass Distribution**Speaker**

Peter Tandy

16:30–16:50

Hyperon electromagnetic form factors in VMD model**Speaker**

Dr Ju-Jun Xie

16:50–17:10

Single spin asymmetry among hyperons using scalar diquark model**Speaker**

Harleen Dahiya

17:10–17:30

Lightcone and quasi distribution amplitudes for light octet and decuplet baryons**Speaker**

Dr Jun Zeng

17:30