Session Program

28 November 2021 to 4 December 2021



Light Cone 2021: Physics of Hadrons on the Light Front

Plenary Session

Jeju Booyoung Hotel, Emerald Hall 222 Jungmungwangwang-ro, Seogwipo-si, Jeju-do 63547, Republic of Korea

Monday 29 November

08:30 **Plenary Session: Session 1** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Ho-Meoyng Choi 08:30-08:40 Welcome Address Speaker Yunkyu Bang 08:40-09:10 From Instant to Light-Front: Opening LC2021 Speaker Chueng Ji 09:10-09:40 A New Class of Exclusive Processes to Better Measure the \$x\$-Dependence of DAs and GPDs Speaker Jianwei Qiu 09:40-10:10 Novel Properties of Hadron Physics Derived from Holographic Light-Front QCD Speaker Stanley Brodsky 10:10 10:30 Plenary Session: Session 2 Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Jianwei Qiu 10:30-11:00 Light-Front Quantization as an Effective Field Theory Speaker Xiangdong Ji **Basis Light Front Quantization - Progress and Prospects** 11:00-11:30 Speaker James Vary 11:30-12:00 QCD Analysis of Pion Parton Distributions **Speaker** Wally Melnitchouk 12:00 13:30 Plenary Session: Session 3 Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Hyun-Chul Kim 13:30-14:00 Recent Progress of Hypernuclear Physics Speaker Emiko Hiyama 14:00-14:30 Nucleon Parton Distributions from Lattice QCD

	Speaker Jiunn-Wei Chen
	14:30-15:00 Elementary Example of Exact Effective-Hamiltonian Computation Speaker Stanislaw Glazek
15:30	15:00-15:30 Resonance in Coupled Channel Reactions Speaker Toru Sato
15:50	Plenary Session: Session 4 Session Location: Jeju Booyoung Hotel, Emerald Hall A&B Convener: Stefan Diehl
	15:50-16:20 Frame Dependence of Relativistic Charge Distributions Speaker Cédric Lorcé
	16:20-16:50 Compton Scattering on \$^4\$He: Kinematical Features Speaker B. L. G. Bakker
	16:50-17:20 FAIR Physics with PANDA Speaker Kai-Thomas Brinkmann
	17:20-17:50 Results from the COMPASS Experiment at CERN Speaker Fabienne Kunne
	17:50-18:10 A perturbative expansion for bound states Speaker Paul Hoyer
18:30	18:10-18:30 Baryonic form factor of the pion Speaker Wojciech Broniowski

Tuesday 30 November

08:30 **Plenary Session: Session 5** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Hyon-Suk Jo 08:30-09:00 The SoLID Science Program in Hall A at Jefferson Lab Speaker Zein-Eddine Meziani 09:00-09:30 3D Structure of the Nucleon: from JLab12 to JLab24 Speaker Harut Avakian 09:30-10:00 Nucleon Structure Modification from Tagged DIS Measurements at JLab and the **EIC** Speaker Or Hen 10:00-10:30 Higher-Spin Baryon Photoproduction with Twisted Photons Speaker Carl Carlson 10:30 10:50 Plenary Session: Session 6 Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Wally Melnitchouk 10:50-11:20 Abel Tomography: Charge and Energy-Momentum Tensor Densities of the Nucleon Speaker Hyun-Chul Kim 11:20-11:50 Novel Hadron Physics by Structure Functions of Spin-1 Hadrons Speaker Shunzo Kumano 11:50-12:20 Positronium Structure from Light-Front QED Hamiltonian Speaker Xingbo Zhao 12:20 16:20 Plenary Session: Session 7 Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Kai-Thomas Brinkmann 16:20-16:50 Current Highlights and Future Prospects from CMS Speaker Sezen Sekmen 16:50-17:20 Highlights from ATLAS and Future Plans

Speaker

Massimo Corradi

17:20-17:50

Photon-to-Nucleon Transition Distribution Amplitudes and Backward Time-like **Compton Scattering**

Speaker

Kirill Semenov-Tian-Shansky

17:50-18:20 Experimental TDA Program at FAIR, JLab and J-PARC

Speaker

Stefan Diehl

18:20

Wednesday 1 December

08:30 **Plenary Session: Session 8** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Harut Avakian 08:30-09:00 Zero Modes and the Vacuum Speaker Matthias Burkardt 09:00-09:30 Simple Light Front Quark Models Speaker Wayne Polyzou A Nonperturbative Perspective on the Light-Front Vacuum 09:30-10:00 Speaker John Hiller 10:00-10:30 Light-Front Quantization from Then Until Now Speaker Philip Mannheim 10:30 10:50 **Plenary Session: Session 9** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Su Houng Lee 10:50-11:20 Generalized Polarizabilities of the Proton: Overview and New Results Speaker Nikos Sparveris 11:20-11:50 Recent Results on Baryon Structures and Dark Sector Searches at Belle and Belle Speaker Youngjoon Kwon 11:50-12:20 Spectroscopic Study of Quark Dynamics in Baryons at J-PARC Speaker Hiroyuki Noumi 12:20 16:20 Plenary Session: Session 10 Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Giovanni Salme' 16:20-16:50 Going to the Light Front with Contour Deformations Speaker Gernot Eichmann 16:50-17:20 Canonical Approach for Extreme QCD Speaker Seung-il Nam

17:20-17:50

Deeply Virtual Compton Scattering on the Neutron with CLAS12 at Jefferson Lab

Speaker

Silvia Niccolai

17:50-18:20

The BGOOD Experiment at ELSA and Multi-Quark Structures in the uds-Sector

Speaker

Hartmut Schmieden

18:20

Friday 3 December

08:30 **Plenary Session: Session 11** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Kyungseon Joo 08:30-09:00 Origins of the Proton Mass Speaker Ian Cloet 09:00-09:30 Confinement in Two-Dimensional QCD and the Infinitely Long Pion Speaker Gerald Miller 09:30-10:00 Pseudodistributions: PDFs Off the Light Cone Speaker Anatoly Radyushkin 10:00-10:30 Foundations of the Parton Model Description of TMDs Speaker Fatma Aslan 10:30 10:50 **Plenary Session: Session 12** Session | Location: Jeju Booyoung Hotel, Emerald Hall A&B | Convener: Craig Roberts Advances in Exploration of the Nucleon Resonance Spectrum and Structure Speaker Victor Mokeev 11:20-11:50 Parton Structures in Backward Photo/Electroproduction of Meson Speaker Byung-Geel Yu 11:50-12:20 **Jet Physics Program at RHIC** Speaker Nihar Sahoo

12:20

Saturday 4 December

