

Light Cone 2022 Online: Physics of Hadrons on the Light Front

Monday, September 19, 2022

Session: 1 (1:00 PM - 2:30 PM)

-Conveners: Chueng-Ryong Ji

time	[id] title	presenter
1:00 PM	[18] Insights into and contrasts between proton and pion structure	ROBERTS, Craig
1:30 PM	[9] Dyson-Schwinger quark model with dynamical mass generation in Minkowski space	DUARTE, Dyana C.
2:00 PM	[1] Global QCD analyses of meson structures	BARRY, Patrick

Session: 2 (2:45 PM - 4:15 PM)

-Conveners: Chueng-Ryong Ji

time	[id] title	presenter
2:45 PM	[11] Non-perturbative insights into the properties of particles at finite temperature	LOWDON, Peter
3:15 PM	[14] Nucleon structure: Knowns, known unknowns and unknown unknowns	MILLER, Gerald
3:45 PM	[6] A light front perspective on the energy-momentum tensor	FREESE, Adam

Tuesday, September 20, 2022

Session: 3 (1:00 PM - 2:30 PM)

-Conveners: Stanislaw Glazek

time	[id] title	presenter
1:00 P	M15 Confinement, chiral symmetry breaking, holography and the 3D image of the pion	LI, Yang
1:30 P	M16 Pion structure within a dynamical model in Minkowski space	DE PAULA, Wayne
2:00 P	M15 Nucleon with one dynamical gluon on the light front	MONDAL, Chandan

Session: 4 (2:45 PM - 4:15 PM)

-Conveners: Stanislaw Glazek

time	[id] title	presenter
2:45 P	M11 Structure and dynamics of the proton within a light-front model	YDREFORS, Emanuel
3:15 P	M19 Basis-function approach to Quantum Chromodynamics of effective quarks	SERAFIN, Kamil
3:45 P	M17 The EMC effect within the light-front Hamiltonian dynamics	RINALDI, Matteo

Wednesday, September 21, 2022**Session: 5 (1:00 PM - 2:30 PM)****-Conveners: James Vary**

time	[id] title	presenter
1:00 P	[M1] Signature of gluon orbital angular momentum	BHATTACHARYA, Shohini
1:30 P	[M2] Interpolating 't Hooft model between the instant form dynamics and the light front dynamics	MA, Bailing
2:00 P	[M2] Going to the light front with contour deformations	FERREIRA, Eduardo

Session: 6 (2:45 PM - 4:15 PM)**-Conveners: James Vary**

time	[id] title	presenter
2:45 P	[M7] First multidimensional $\text{sep} \to e'p'X$ single spin asymmetries in the target fragmentation at Jefferson Lab.	BENMOKHTAR, Fatiha
3:15 P	[M8] Light-front quantization of the fermionic vector Schwinger model	KULSHRESHTHA, Daya Shankar
3:45 P	[M9] Light-front quantization of the Maxwell Chern-Simons Higgs theory under broken symmetry phase	KULSHRESHTHA, Usha

Thursday, September 22, 2022

Session: 7 (1:00 PM - 2:30 PM)

-Conveners: Barbara Pasquini

time	[id] title	presenter
1:00 PM	[M1] The QCD running coupling	DEUR, Alexandre
1:30 PM	[M20] Emerging superconformal structure in holographic light-front QCD	DE TERAMOND, Guy F.
2:00 PM	[M23] New results on gluon and heavy quark content in the nucleon	LYUBOVITSKIJ, Valery E.

Session: 8 (2:45 PM - 4:15 PM)

-Conveners: Barbara Pasquini

time	[id] title	presenter
2:45 PM	[M24] Physics on and off the light cone	MANNHEIM, Philip D.
3:15 PM	[M26] Virtual Compton scattering on $\gamma^* + \text{He}$: Rosenbluth formula	BAKKER, Ben
3:45 PM	[M23] The pressure inside the proton: a NLO analysis	MEZRAG, Cedric

Friday, September 23, 2022

Session: 9 (1:00 PM - 2:30 PM)

-Conveners: Wayne Polyzou

time	[id] title	presenter
1:00 PM	[9] Chiral anomaly and the pion properties in the light-front quark model	CHOI, Ho-Meoyng
1:30 PM	[10] Mass sum rules for the nucleon	LORCÉ, Cédric
2:00 PM	[15] Computing GPDs in lattice QCD: Recent progress	METZ, Andreas

Session: 10 (2:45 PM - 4:15 PM)

-Conveners: Wayne Polyzou

time	[id] title	presenter
2:45 PM	[6] Quantum simulation: Cracking the exponential wall	KRESHCHUK, Michael
3:15 PM	[7] From time dependent correlation functions to thermalization: Using non-perturbative wavefunctions from LCT	KATZ, Emanuel