

APCTP Focus Program in Nuclear Physics 2022: Hadron Physics Opportunities with JLab Energy and Luminosity Upgrade

Monday, July 18, 2022

Session: 1 - Classroom 512 (9:00 AM - 10:20 AM)

-Conveners: Yongseok Oh

time	[id] title	presenter
9:00 AM	[16] Hadron physics with CLAS12 at energies up to 24 GeV.	BURKERT, Volker
9:30 AM	Discussion	
9:40 AM	[21] Applications of the gauge/gravity duality to hadron physics	JARVINEN, Matti
10:10 AM	Discussion	

Session: 2 - Classroom 512 (10:40 AM - 11:50 AM)

-Conveners: Ho-Meoyng Choi

time	[id] title	presenter
10:40 AM	[6] Probing Nuclear Structure at Extreme Conditions	SARGSIAN, Misak
11:10 AM	Discussion	
11:20 AM	[5] Photo- and electro-production of ϕ meson on the nucleon and ^4He	KIM, Sangho
11:40 AM	Discussion	

Tuesday, July 19, 2022

Session: 3 - Classroom 512 (9:00 AM - 10:20 AM)

-Conveners: Timothy Hayward

time	[id] title	presenter
9:00 AM	[38] Overview of transverse momentum dependent parton distributions *	YUAN, Feng
9:30 AM	Discussion	
9:40 AM	[30] Transverse-Momentum-Dependent Proton Structures from Lattice QCD *	ZHAO, Yong
10:10 AM	Discussion	

Session: 4 - Classroom 512 (10:40 AM - 12:00 PM)

-Conveners: Victor Mokeev

time	[id] title	presenter
10:40 AM	[29] Nucleon spin structure studies at COMPASS: recent results and prospects	PARSAMYAN, Bakur
11:10 AM	Discussion	
11:20 AM	[18] The SoLID Science Program at 12 GeV and Beyond	MEZIANI, Zein-Eddine
11:50 AM	Discussion	

Session: 5 - Classroom 512 (2:00 PM - 4:00 PM)

-Conveners: Kyungseon Joo

time	[id] title	presenter
2:00 PM	[25] JLab Upgrade Opportunities for SIDIS Dihadrons at CLAS *	DILKS, Christopher
2:30 PM	Discussion	
2:40 PM	[24] Nuclear hadronization studies JLab: present and future	HAKOBYAN, Hayk
3:10 PM	Discussion	
3:20 PM	[12] Fixed targets at LHC *	DI NEZZA, Pasquale
3:50 PM	Discussion	

Wednesday, July 20, 2022

Session: 6 - Classroom 512 (9:00 AM - 10:20 AM)**-Conveners: Hayk Hakobyan**

time	[id] title	presenter
9:00 AM	[3] Fracture functions formalism for hadron production from the target remnant in hard processes	KOTZINIAN, Aram
9:30 AM	Discussion	
9:40 AM	[17] Accessing Target Fragmentation: Prospects and Results from CLAS	HAYWARD, Timothy
10:10 AM	Discussion	

Session: 7 - Classroom 512 (10:40 AM - 12:00 PM)**-Conveners: Harut Avagyan**

time	[id] title	presenter
10:40 AM	[10] Confinement, Color Vortices and Nonperturbative Structures in QCD	SIVERS, Dennis
11:10 AM	Discussion	
11:20 AM	[26] Matching of fracture functions for SIDIS in target fragmentation region *	TONG, Xuanbo
11:50 AM	Discussion	

Thursday, July 21, 2022

Session: 8 - Classroom 512 (9:00 AM - 10:20 AM)

-Conveners: Zein-Eddine Meziani

time	[id] title	presenter
9:00 AM	[2] Theoretical simulation of the virtual meson production in the forward direction	JI, Chueng-Ryong
9:30 AM	Discussion	
9:40 AM	[20] Radiative effects in polarized SiDIS	ILYICHEV, Alexander
10:10 AM	Discussion	

Session: 9 - Classroom 512 (10:40 AM - 12:10 PM)

-Conveners: Misak Sargsian

time	[id] title	presenter
10:40 AM	[13] Light quark distribution functions in the heavy baryon within a chiral quark-soliton approach	SON, Hyeon-Dong
11:00 AM	Discussion	
11:10 AM	[15] Analysis of the virtual meson production in a (1+1)-dimensional scalar field model	CHOI, Yongwoo
11:30 AM	Discussion	
11:40 AM	[7] Generalized parton distributions for the Goldstone boson	HUTAURUK, Parada Tobel Paraduan
12:00 PM	Discussion	

Session: 10 - Classroom 512 (2:00 PM - 3:20 PM)

-Conveners: Bakur Parsamyan

time	[id] title	presenter
2:00 PM	[28] Polarized vector meson production in semi-inclusive DIS *	CHEN, Kai-bao
2:30 PM	Discussion	
2:40 PM	[14] Vector meson production in polarized string fragmentation in Pythia *	KERBIZI, Albi
3:10 PM	Discussion	

Session: 11 - Classroom 512 (3:40 PM - 4:20 PM)

-Conveners: Andrey Kim

time	[id] title	presenter
3:40 PM	[9] Extractions of TMD distributions from the SIDIS data *	VLADIMIROV, Alexey
4:10 PM	Discussion	

Friday, July 22, 2022

Session: 12 - Classroom 512 (9:00 AM - 10:20 AM)

-Conveners: Aram Kotzinian

time	[id] title	presenter
9:00 AM	[23] Hard exclusive reactions with baryon number transfer: status and perspectives.	SEMENOV-TYAN-SHANSKIY, Kirill
9:30 AM	Discussion	
9:40 AM	[1] Studies of exclusive processes at JLab Hall-A/C	ROCHE, Julie
10:10 AM	Discussion	

Session: 13 - Classroom 512 (10:40 AM - 12:00 PM)

-Conveners: Julie Roche

time	[id] title	presenter
10:40 AM	[31] What can we learn on GPDs from Lattice QCD *	CONSTANTINO, Martha
11:10 AM	Discussion	
11:20 AM	[27] Deeply Virtual Meson Electroproduction at Jefferson Lab with CLAS12	KIM, Andrey
11:50 AM	Discussion	

Session: 14 - Classroom 512 (2:00 PM - 3:20 PM)

-Conveners: Kirill Semenov-Tyan-Shanskiy

time	[id] title	presenter
2:00 PM	[37] Recent GPD developments obtained with PARTONS framework *	SZNAJDER, Pawel
2:30 PM	Discussion	
2:40 PM	[33] Deeply Virtual Compton Scattering with CLAS12 at Jefferson Lab	HOBART, Adam
3:10 PM	Discussion	

Session: 15 - Classroom 512 (3:40 PM - 4:20 PM)

-Conveners: Alexander Ilyichev

time	[id] title	presenter
3:40 PM	[11] 3D Structure of the Nucleon: from JLab12 to JLab24	AVAGYAN, Harut
4:10 PM	Discussion	

Saturday, July 23, 2022

Session: 16 - Classroom 512 (9:00 AM - 10:30 AM)

-Conveners: Chueng-Ryong Ji

time	[id] title	presenter
9:00 AM	[19] Insight into Emergence of Hadron Mass in the Exploration of N* Structure at JLab after Energy and Luminosity Increase	MOKEEV, Victor
9:30 AM	Discussion	
9:40 AM	[32] Exclusive Processes and GPDs	JOO, Kyungseon
10:10 AM	Discussion	
10:20 AM	[34] Concluding Remarks	JOO, Kyungseon