



# HUGS 2022

## Thursday, June 16, 2022

### Student Seminars - F113 (9:00 AM - 12:00 PM)

-Conveners: Chair: Alex

time	[id] title	presenter
9:00 AM	A159] Generalized parton distributions through universal moment parameterization: zero skewness limit	GUO, YUXUN
9:15 AM	A160] Light Meson Spectroscopy in KsKs Photoproduction at GlueX	HOFFMAN, Nathaniel
9:30 AM	A161] A Timing Hodoscope for the Super BigBite Spectrometer	MARINARO, Ralph
9:45 AM	A162] Kalman Filter for track reconstruction	OUILLO, Mathieu
10:00 AM	Break	
10:15 AM	A163] Development of Future Forward Calorimeter for CLAS	PECK, Alec
10:30 AM	A164] Reconstructing semi-inclusive DIS kinematics at the EIC with machine learning	PECAR, Connor
10:45 AM	A165] Extraction of the Proton and Deuteron Charge Radius Via Elastic Electron-Proton Scattering	HOLMBERG, Derek
11:00 AM	Break	
11:15 AM	A166] Unbinned maximum likelihood fit for $\eta \rightarrow \pi^+ \pi^- \pi^0$ Dalitz Plot Analysis at GlueX	SEPTIAN, Nizar
11:30 AM	A167] MOLLER Shower-max Detector System	BHATTARAI, Sudip
11:45 AM	A168] A Very Strange Search : Differential Cross Section of the $\Xi^-$ Baryon in Electroproduction off of a Proton Target	CARVAJAL, Jose

### Student Seminars - F113 (1:00 PM - 4:00 PM)

-Conveners: Chair: Juan

time	[id] title	presenter
1:00 PM	A169] Measurements and Simulations of $(e, e'n)/(e, e'p)$ in $^3\text{He}$ for High and Low Momentum Nucleons	SEROKA, Erin
1:15 PM	A170] Gas Electron Multiplier Detectors used in the SBS GMn Experiment	JEFFAS, Sean
1:30 PM	A171] Equation of State for Neutron Star Matter including Hyperons	NORO, Kaito
1:45 PM	A172] A Thermodynamic approach to heavy-ion collisions	MANIKANDHAN, Rutik
2:00 PM	Break	
2:15 PM	A173] Study of the $\omega$ meson structure	RAKSHIT, Saheli
2:30 PM	A174] Beam Spin Asymmetries in the $ep \rightarrow (e' \pi^+ \pi^0) X$ channel at CLAS12	MATOUSEK, Gregory
2:45 PM	A175] GEM Detectors for Muon Scattering Experiment	PATEL, Tanvi

3:00 PM	Break	
3:15 PM	[M76] Orbital Angular Momentum at Small x	MANLEY, Brandon
3:30 PM	[M77] Many proton knock-out from nuclear targets using real photon beams	WILLIAMS, Rhidian
3:45 PM	[M78] Exploring Neutron-Proton SRC Pair Dominance with a Real Photon Beam	SHARP, Phoebe

# Friday, June 17, 2022

## Student Seminars - F113 (9:00 AM - 12:00 PM)

time	[id] title	presenter
9:00 AM	[179] Double gluon production at UPC	DUAN, Haowu
9:15 AM	[180] Longitudinal Spin Transfer to Lambda Hyperons at CLAS12	MCENEANEY, Matthew
9:30 AM	[181] Testing the EMC-SRC Hypothesis with the LAD Experiment	RATLIFF, Sara
9:45 AM	Break	
10:00 AM	[182] Describing the internal structure of pseudo-scalar mesons through an algebraic model	HIGUERA ANGULO, Isela Melany
10:15 AM	[183] Analysis of $J/\psi$ photoproduction near threshold	TENORIO PITA, Mariana
10:30 AM	[184] Phi meson photo-production at 9 GeV on nuclear targets at GlueX	YU, Bo
10:45 AM	Break	
11:00 AM	[185] Gluon PDFs from Lattice QCD using twisted-mass fermions	DELMAR, Joseph
11:15 AM	[186] Revised Small-x Helicity Evolution	TAWABUTR, Yossathorn
11:30 AM	[183] Testing the Statistical Validity of Collinear factorization at high $x_b$	KRAUSE, Andy