

The 39th International Symposium on Lattice Field Theory (Lattice 2022)

Tuesday, August 9, 2022

Hadron Structure: Hadron Structure I - CP1-HSZ/1.002 (CP1-HSZ) - HS6 (2:00 PM - 4:00 PM)

-Conveners: Martha Constantinou

time	[id] title	presenter
2:00 PM	[195] Electromagnetic form factors of the proton and neutron from $N_{\mathfrak{f}} = 2 + 1$ lattice QCD	Mr SALG, Miguel
2:20 PM	[166] Nucleon electromagnetic form factors using $N_{\mathfrak{f}}=2+1+1$ twisted mass fermion ensembles at the physical mass point	KOUTSOU, Giannis
2:40 PM	[395] Gravitational structure of the proton and pion	HACKETT, Daniel
3:00 PM	[84] Nucleon isovector form factors from 2+1-flavor domain-wall QCD at physical mass	OHTA, Shigemi
3:20 PM	[439] Nucleon form factors with sLapH OR nucleon-pion sigma term from MDWF on HISQ	WALKER-LOUD, Andre
3:40 PM	[188] Isovector Axial Form Factor of the Nucleon from Lattice QCD	KOPONEN, Jonna

Hadron Structure: Hadron Structure II - CP1-HSZ/1.002 (CP1-HSZ) - HS6 (4:30 PM - 6:30 PM)

-Conveners: Giannis Koutsou

time	[id] title	presenter
4:30 PM	[183] Mass and isovector matrix elements of the nucleon at zero-momentum transfer	Dr OTTNAD, Konstantin
4:50 PM	[72] Resonance form factors from finite-volume correlation functions with the external field method	LOZANO DE LA PARRA, Jonathan
5:10 PM	[39] Towards the continuum limit of nucleon form factors at the physical point using lattice QCD	TSUJI, Ryutaro
5:30 PM	[193] Sigma Terms and Nucleon Charges from $N_{\mathfrak{f}}=2+1$ Lattice Simulations	JENKINS, Daniel
5:50 PM	[331] The pion-nucleon sigma term with $N_{\mathfrak{f}} = 2 + 1$ $O(a)$ -improved Wilson fermions	DJUKANOVIC, Dalibor
6:10 PM	[114] Sigma terms of the baryon octet in $N_{\mathfrak{f}} = 2+1$ QCD with Wilson quarks	PETRAK, Pia Leonie Jones

Wednesday, August 10, 2022

Hadron Structure: Hadron Structure III - CP1-HSZ/0.010 (CP1-HSZ) - HS2 (2:00 PM - 4:00 PM)

-Conveners: Jeremy Green

time	[id] title	presenter
2:00 PM	[140] Transverse momentum-dependent parton distributions for longitudinally polarized nucleons from domain wall fermion calculations at the physical pion mass	ENGELHARDT, Michael
2:20 PM	[99] Lattice QCD Determination of the Bjorken- x Dependence of PDFs at Next-to-next-to-leading Order	GAO, Xiang
2:40 PM	[70] Quark Transversity Distributions in the Nucleon using the LaMET approach	WALTER, Lisa
3:00 PM	[323] Study of quasi-beam function in twisted mass lattice QCD	SEN, Aniket
3:20 PM	[7] Collins-Soper kernel and soft function from lattice QCD	SHU, Hai-Tao
3:40 PM	[388] Nucleon PDFs at the physical point from lattice QCD using NNLO matching	Dr HANLON, Andrew

Hadron Structure: Hadron Structure IV - CP1-HSZ/0.010 (CP1-HSZ) - HS2 (4:30 PM - 6:30 PM)

-Conveners: Michael Engelhardt

time	[id] title	presenter
4:30 PM	[239] Unpolarized gluon PDF for the proton using the twisted mass formulation	DELMAR, Joseph
4:50 PM	[10] Continuum limit of parton distribution functions from the pseudo-distribution approach on the lattice	BHAT, Manjunath
5:10 PM	[399] Chiral-even twist-3 GPDs for the proton	DODSON, Jack
5:30 PM	[411] Leading-twist Quark PDFs of the Nucleon from Ioffe-time Pseudo-distributions	EGERER, Colin
5:50 PM	[94] Towards determining gluon helicity distribution in the nucleon from lattice QCD	SUFIAN, Raza
6:10 PM	[266] A lattice QCD calculation of the off-forward Compton amplitude and generalised parton distributions	HANNAFORD GUNN, Alec

Thursday, August 11, 2022

Hadron Structure: Hadron Structure V - CP1-HSZ/0.010 (CP1-HSZ) - HS2 (9:00 AM - 11:00 AM)

-Conveners: **Fernanda Steffens**

time	[id] title	presenter
9:00 AM	[149] Nucleon transverse quark spin densities	ALEXANDROU, Constantia
9:20 AM	[318] GPDs in non-symmetric frames	BHATTACHARYA, Shohini
9:40 AM	[307] Accessing proton GPDs in lattice QCD using a non-symmetric frame	CONSTANTINO, Martha
10:00 AM	[199] Calculation of Distribution Amplitudes in Quantum Chromodynamics using Large-Momentum Effective Theory up to power accuracy	HOLLIGAN, Jack
10:20 AM	[83] Double parton distributions in the nucleon on the lattice: Flavor interference effects	ZIMMERMANN, Christian

Friday, August 12, 2022

Hadron Structure: Hadron Structure VI - CP1-HSZ/0.010 (CP1-HSZ) - HS2 (2:10 PM - 4:10 PM)

-Conveners: Raza Sufian

time	[id] title	presenter
2:10 PM	[175] Quark mass dependence of hadron resonances	GIL DOMÍNGUEZ, Fernando
2:30 PM	[267] Pion nucleon excited state effects in nucleon observables	PITTLER, Ferenc
2:50 PM	[227] Non-perturbative renormalization of quark and gluon operators using a gauge-invariant scheme	Dr SPANOUEDES, Gregoris
3:10 PM	[220] Pion polarizability from four-point functions in lattice QCD	LEE, Frank
3:30 PM	[250] Calculation of the pion charge radius from an improved model-independent method	SATO, Kohei
3:50 PM	[471] Nucleon charges, moments, and form factors from 2+1-flavor lattice QCD	GUPTA, Rajan

Hadron Structure: Hadron Structure VII - CP1-HSZ/0.010 (CP1-HSZ) - HS2 (4:40 PM - 6:40 PM)

-Conveners: Konstantin Ottnad

time	[id] title	presenter
4:40 PM	[342] Removing the π contamination from axial matrix elements at non-vanishing momentum	Mr BARCA, Lorenzo BARCA, Lorenzo
5:00 PM	[131] The momentum sum rule via the Feynman Hellmann theorem	ZANOTTI, James
5:20 PM	[160] Progress in calculation of the fourth Mellin moment of the pion light-cone distribution amplitude using the HOPE method	PERRY, Robert
5:40 PM	[358] Update on flavor diagonal nucleon charges	PARK, Sungwoo