



# Lattice 2024

## Monday 29 July 2024

### Structure of hadrons and nuclei: Flex2 (11:15 - 13:15)

-Conveners: Anthony Grebe

time	[id] title	presenter
11:15	[132] Nucleon axial, tensor, and scalar charges and $\sigma$ -terms from lattice QCD	IONA, Christos
11:35	[368] Flavor diagonal charges of the nucleon and the sigma term	GUPTA, Rajan
11:55	[381] The isoscalar non-singlet axial form factor of the nucleon from lattice QCD	BARONE, Alessandro
12:15	[16] How much strangeness is needed for the axial-vector form factor of the nucleon?	HERMSEN, Felix
12:35	[353] Proton and neutron electromagnetic form factors using $N_f=2+1+1$ twisted-mass fermions with physical values of the quark masses	PRASAD, Bhavna
12:55	[444] Nucleon electromagnetic form factors at large momentum from Lattice QCD	SYRITSYN, Sergey

### Structure of hadrons and nuclei: Flex2 (14:15 - 15:55)

-Conveners: Seyong Kim

time	[id] title	presenter
14:15	[73] A proposal for removing $\pi N$ -state contamination from the nucleon induced pseudoscalar form factor in lattice QCD	SASAKI, Shoichi
14:35	[252] $\gamma^* N \rightarrow \pi N$ on Lattice	GAO, Yusheng
14:55	[210] Update on pion scalar radii with $N_f=2+1$ Clover-improved Wilson fermions	OTTNAD, Konstantin
15:15	[219] Calculation of meson charge radii using model-independent method in the PACS10 configuration	SATO, Kohei
15:35	[316] Isovector axial and pseudoscalar form factors from twisted mass lattice QCD at the physical point	KOUTSOU, Giannis

# Tuesday 30 July 2024

## Structure of hadrons and nuclei: Flex2 (11:15 - 12:35)

-Conveners: Dimitra Pefkou

time	[id] title	presenter
11:15	[28] Phase shift in doubly Charmed H-like dibaryon $\Lambda_c \Lambda_c$ scattering at $M_{\pi} \approx 303 \text{ MeV}$	GENG, Yiqi
11:35	[99] Three Neutrons in a Finite Volume	SCHAAF, Wilder
11:55	[154] Investigation of $\pi N$ contributions to nucleon matrix elements	LI, Yan
12:15	[450] Lattice EFT test of the finite-volume formalism for two-body matrix elements	MOSCOSO, Joseph

## Structure of hadrons and nuclei: Flex2 (13:45 - 15:45)

-Conveners: Tie-Jiun Hou

time	[id] title	presenter
13:45	[24] Measurement of the TMD soft function on the lattice using the auxiliary field representation of the Wilson line	MORRIS, Wayne
14:05	[499] Lattice Boer-Mulders TMDPDF with LaMET	MA, Lingquan
14:25	[391] Nucleon TMDPDFs within the twisted mass fermion formulation of lattice QCD	SEN, Aniket
14:45	[91] Forward-limit generalized parton distributions of the $\eta_c$ -meson	MORGADO CHÁVEZ, Jose Manuel
15:05	[230] Gluon Collins-Soper kernel from lattice QCD	FU, Yang
15:25	[426] Refining Gluon Distributions in Nucleons via Lattice QCD	MAIO, Lorenzo

# Thursday 1 August 2024

## Structure of hadrons and nuclei: Flex2 (09:00 - 10:40)

-Conveners: Xu Feng

time	[id] title	presenter
09:00	[392] Unlocking Higher Moments of Parton Distribution Functions in Lattice QCD	ANDREA, Shindler
09:20	[423] Higher moments of the pion parton distribution functions using gradient flow	PEFKOU, Dimitra
09:40	[285] LCDA moments of meson	WANG, Ji-Hao
10:00	[84] Quark and gluon momentum fractions in the pion and in the kaon	RODRIGUEZ CHACON, Luis Alberto
10:20	[25] Transverse Force Distributions in the Proton from Lattice QCD	CRAWFORD, Joshua

## Structure of hadrons and nuclei: Flex2 (11:30 - 12:30)

-Conveners: Giannis Koutsou

time	[id] title	presenter
11:30	[330] Neutral pion polarizabilities from four-point functions	LEE, Frank
11:50	[50] Charged kaon electric polarizability from lattice four-point functions	NADEEM, Shayan
12:10	[40] Applications of nucleon four-point correlation functions	FENG, Xu

# Friday 2 August 2024

## Structure of hadrons and nuclei: Flex2 (11:15 - 13:15)

-Conveners: Roger Horsley

time	[id] title	presenter
11:15	[26] Axialvector diquark Mass and quark-diquark potential in $\Sigma_c$	NISHIOKA, Soya
11:35	[27] Gauge dependence of $c\bar{c}$ potential from Nambu-Bethe-Salpeter wave function in Lattice QCD	ZHANG, Tianchen
11:55	[468] Long-range interactions in double heavy tetraquarks $\bar{Q} \bar{Q} q q$	Dr ANWAR, Muhammad Naeem
12:15	[200] Gluon nonlocal operator mixing in lattice QCD	GAVRIEL, Demetrianos
12:35	[422] Lanczos for matrix elements	HACKETT, Daniel
12:55	[174] Exploring Nuclear Beta Decay Through Nuclear Lattice Effective Field Theory	Dr WANG, Teng

## Structure of hadrons and nuclei: Flex2 (14:15 - 15:55)

-Conveners: Andrea Shindler

time	[id] title	presenter
14:15	[94] The leading-twist distribution amplitude of the $\eta_c$ meson	SAN JOSÉ PÉREZ, Miguel Teseo
14:35	[108] Proton radii for muonic hydrogen spectroscopy from lattice QCD	SALG, Miguel
14:55	[159] Studies of nucleon isovector structures with the PACS10 superfine lattice	TSUJI, Ryutaro
15:15	[218] Renormalisation Group Equations for 2+1 clover Fermions	HORSLEY, Roger
15:35	[248] Updates on the parity-odd structure function of the nucleon from the Compton amplitude	CAN, K. Utku