

USQCD Publications—2021

20. Z. Fan and H. W. Lin, “Gluon parton distribution of the pion from lattice QCD” [arXiv:2104.06372 \[hep-lat\]](#).
19. K. F. Liu, “Proton mass decomposition and hadron cosmological constant” [arXiv:2103.15768 \[hep-ph\]](#).
18. L. Liu, T. Chen, T. Draper, J. Liang, K. F. Liu, G. Wang and Y. B. Yang, “Nucleon isovector scalar charge from overlap fermions” [arXiv:2103.12933 \[hep-lat\]](#).
17. S. Meinel and G. Rendon, “ $\Lambda_b \rightarrow \Lambda_c^*(2595, 2625)\ell^- \bar{\nu}$ form factors from lattice QCD” [arXiv:2103.08775 \[hep-lat\]](#).
16. S. Bassler, J. Laiho, M. Schiffer and J. Unmuth-Yockey, “The de Sitter instanton from Euclidean dynamical triangulations” [arXiv:2103.06973 \[hep-lat\]](#).
15. S. Park *et al.* [Nucleon Matrix Elements (NME) Collaboration], “Precision nucleon charges and form factors using 2+1-flavor lattice QCD” [arXiv:2103.05599 \[hep-lat\]](#).
14. P. Boyle and A. Yamaguchi, “Comparison of domain wall fermion multigrid methods” [arXiv:2103.05034 \[hep-lat\]](#).
13. P. X. Ma, X. Feng, M. Gorchtein, L. C. Jin and C. Y. Seng, “Lattice QCD calculation of the electroweak box diagrams for the kaon semileptonic decays” [arXiv:2102.12048 \[hep-lat\]](#).
12. A. Rothkopf, “Conserving lattice gauge theory for finite systems” [arXiv:2102.08616 \[hep-lat\]](#).
11. G. Bergner and D. Schaich, “Eigenvalue spectrum and scaling dimension of lattice $\mathcal{N} = 4$ supersymmetric Yang-Mills” [JHEP 2104, 260 \(2021\) \[arXiv:2102.06775 \[hep-lat\]\]](#).
10. X. Gao, N. Karthik, S. Mukherjee, P. Petreczky, S. Syritsyn and Y. Zhao, “Pion form factor and charge radius from lattice QCD at physical point” [arXiv:2102.06047 \[hep-lat\]](#).
9. L. Gayer, N. Lang, S. M. Ryan, D. Tims, C. E. Thomas and D. J. Wilson, “Isospin-1/2 $D\pi$ scattering and the lightest D_0^* resonance from lattice QCD” [arXiv:2102.04973 \[hep-lat\]](#).
8. M. Dai, J. Laiho, M. Schiffer and J. Unmuth-Yockey, “Newtonian binding from lattice quantum gravity” [arXiv:2102.04492 \[hep-lat\]](#).
7. A. Parreño *et al.* [NPLQCD Collaboration], “Axial charge of the triton from lattice QCD” [Phys. Rev. D 103, 074511 \(2021\) \[arXiv:2102.03805 \[hep-lat\]\]](#).
6. T. DeGrand, “Finite temperature properties of QCD with two flavors and 3, 4 and 5 colors” [arXiv:2102.01150 \[hep-lat\]](#).
5. X. Gao, K. Lee, S. Mukherjee and Y. Zhao, “Origin and Resummation of Threshold Logarithms in the Lattice QCD Calculations of PDFs” [arXiv:2102.01101 \[hep-ph\]](#).
4. X. Gao, N. Karthik, S. Mukherjee, P. Petreczky, S. Syritsyn and Y. Zhao, “Towards studying the structural differences between the pion and its radial excitation” [arXiv:2101.11632 \[hep-lat\]](#).
3. T. Bhattacharya, V. Cirigliano, R. Gupta, E. Mereghetti and B. Yoon, “Contribution of the QCD Θ -term to nucleon electric dipole moment” [arXiv:2101.07230 \[hep-lat\]](#).

2. M. McNelis, D. Bazow and U. Heinz, “Anisotropic fluid dynamical simulations of heavy-ion collisions” [arXiv:2101.02827 \[nucl-th\]](#)
1. G. Silvi *et al.*, “P-wave nucleon-pion scattering amplitude in the $\Delta(1232)$ channel from lattice QCD” [arXiv:2101.00689 \[hep-lat\]](#).

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