

# USQCD Publications Enabled by the LQCD, LQCD-ext, and LQCD-ARRA Computing Projects

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## Publications in or Submitted to Refereed Journals

- [1] C. McNeile, C. T. H. Davies, E. Follana, K. Hornbostel and G. P. Lepage, “Heavy meson masses and decay constants from relativistic heavy quarks in full lattice QCD,” *Phys. Rev. D* **86**, 074503 (2012) [arXiv:1207.0994 [hep-lat]].
- [2] G. C. Donald, C. T. H. Davies, R. J. Dowdall, E. Follana, K. Hornbostel, J. Koponen, G. P. Lepage and C. McNeile, “Precision tests of the  $J/\psi$  from full lattice QCD: mass, leptonic width and radiative decay rate to  $\eta_c$ ,” *Phys. Rev. D* **86**, 094501 (2012) [arXiv:1208.2855 [hep-lat]].
- [3] C. McNeile, A. Bazavov, C. T. H. Davies, R. J. Dowdall, K. Hornbostel, G. P. Lepage and H. D. Trottier, “Direct determination of the strange and light quark condensates from full lattice QCD,” *Phys. Rev. D* **87**, 034503 (2013) [arXiv:1211.6577 [hep-lat]].
- [4] R. J. Dowdall, C. T. H. Davies, G. P. Lepage and C. McNeile, “Vus from pi and K decay constants in full lattice QCD with physical u, d, s and c quarks,” arXiv:1303.1670 [hep-lat].
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- [6] R. J. Dowdall *et al.* [HPQCD Collaboration], “B-meson decay constants from improved lattice NRQCD and physical u, d, s and c sea quarks,” arXiv:1302.2644 [hep-lat].
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- [8] L. Liu, K. Orginos, F. -K. Guo, C. Hanhart and U. -G. Meissner, “Interactions of Charmed Mesons with Light Pseudoscalar Mesons from Lattice QCD and Implications on the Nature of the  $D_{s0}^*(2317)$ ,” *Phys. Rev. D* **87**, 014508 (2013) [arXiv:1208.4535 [hep-lat]].
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- [11] A. Cheng, A. Hasenfratz, G. Petropoulos and D. Schaich, “Scale-dependent mass anomalous dimension from Dirac eigenmodes,” arXiv:1301.1355 [hep-lat].
- [12] S. R. Beane, E. Chang, S. D. Cohen, W. Detmold, H. W. Lin, T. C. Luu, K. Orginos and A. Parreno *et al.*, “Light Nuclei and Hypernuclei from Quantum Chromodynamics in the Limit of SU(3) Flavor Symmetry,” *Phys. Rev. D* **87**, 034506 (2013) [arXiv:1206.5219 [hep-lat]].

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