

Giannis Koutsou

Curriculum Vitae

Assistant Professor,
Computation-based Science and Technology
Research Center (CaSToRC),
The Cyprus Institute

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Academic Positions

2013 - present	Assistant Professor	CaSToRC, The Cyprus Institute
2011 - 2013	Associate Research Scientist	CaSToRC, The Cyprus Institute
2008 - 2011	Postdoctoral Researcher	University of Wuppertal
	Guest Scientist	Jülich Supercomputing Center

Education

2004 - 2008	PhD Theoretical Physics, thesis title <i>"Hadron form factors and hadron deformation from lattice QCD"</i>	University of Cyprus
2000 - 2004	BSc Physics	University of Cyprus

Research Experience

- Computational strong interaction physics
- Lattice Quantum Chromodynamics
- High Performance Computing and novel computing architectures

Teaching and supervision

Graduate courses

Developed and delivered courses under the Computational Sciences (CoS) doctoral program of the Cyprus Institute. Courses developed and taught:

CoS501 *“Frontiers in High Performance Computing”*, a mandatory course which includes introduction to high performance computing, computer architectures, parallel scientific code development, and scientific software optimization

CoS502 *“Frontiers in Numerical Methods”*, a mandatory course which includes numerical solution of partial differential equations, Monte Carlo methods, and iterative methods for solving large systems of equations

CoS504 *“Computational Physics”*, an elective course on computational methods for studying physical systems, including statistical systems (Ising model and variants), quantum-mechanical systems (e.g. the quantum harmonic oscillator), and quantum field theories (e.g. U(1) theory, Schwinger model)

Supervision of graduate students and research assistants

Ongoing PhD candidates, as primary supervisor

1. Srijit Paul, Marie Skłodowska Curie fellow under “HPC-LEAP” European Joint Doctorate program, expected to graduate 2019 (The Cyprus Institute and University of Wuppertal)
2. Davide Nolè, Marie Skłodowska Curie fellow under “STIMULATE” European Joint Doctorate program, in first year (The Cyprus Institute and University of Wuppertal)

Ongoing PhD candidates, as co-supervisor within European Joint Doctorate programs

3. Viacheslav Bolnykh, Marie Skłodowska Curie fellow under “HPC-LEAP” European Joint Doctorate program, expected to graduate 2019 (The Cyprus Institute and RWTH Aachen)

Supervision of research assistants (RAs)

4. Andreas Diavastos, RA under *GPU Clusterware* project. Currently Postdoctoral Research Fellow, National University of Singapore
5. Christos Kallidonis, RA under *GPU Clusterware* project. Currently Postdoctoral Associate, Stony Brook University and Brookhaven National Laboratory
6. Kyriakos Hadjiyiannakou, RA under *GPU Clusterware* project. Currently Postdoctoral Fellow, CaSToRC, The Cyprus Institute

External funding and projects

GPU Clusterware

Spring 2013 - Fall 2015

PI of the GPU Clusterware project,

- ◇ €150,000 from Cyprus’ Research Promotion Foundation (RPF)

- ◇ Employment of Research Assistants and Research Scientists for evaluation of novel computing architectures for scientific applications

As contributor

- Contributor to “HPC-LEAP” and “STIMULATE” European Joint Doctorates. Funding for two PhD students as primary supervisor
- Contributor to various tasks of the **Partnership for Advanced Computing in Europe** (PRACE), in supporting community scientific codes and prototyping of new computer technologies for scientific applications

Memberships and service

Member **European Twisted Mass Collaborations (ETMC)**

Member of the research collaboration ETMC

Collaboration spokesperson: Dr. Karl Jansen, DESY - Zeuthen, Germany,

website: <http://www-zeuthen.desy.de/~kjansen/etmc/>

Leading **Joint Simulation Laboratory**

Member *Joint SimLab with JSC and DESY - Zeuthen*

Community code support and organization of training events (Lattice Practices)

website: <http://www.cyi.ac.cy/castorc/castorc-research-themes/simulation-lab.html>

Member **Partnership for Advanced Computing in Europe (PRACE)**

Contributor to PRACE 1st to 5th implementation phases (IP)

Contributor to PRACE prototyping activities, including task lead and co-lead

website: <http://www.prace-project.eu/>

Reviewer • Physical Review D

- European Physical Journal A

- Few-Body Systems

Management and administration

Fall 2013 - present **Computational Sciences graduate program**

Deputy coordinator of the Computational Sciences graduate program of the Cyprus Institute

Fall 2013 - present **Technical Evaluation committees for infrastructure procurements**

Member of several evaluation committees for public procurement of computing infrastructure up to €1 Mi

- Fall 2016 - present **Office IT committee of the Cyprus Institute**
Member of committee drafting policies and advising on use of office IT equipment and software
- Fall 2013 - Fall 2016 **Erasmus committee of the Cyprus Institute**
Member of committee reviewing candidates for Erasmus exchanges
- Fall 2013 - Fall 2014 **Academic committee of the Cyprus Institute graduate school**
Member of Academic committee
- Fall 2013 - Fall 2014 **Admissions committee of the Cyprus Institute graduate school**
Member of Admissions committee

Fellowships and awards

- 2005 - 2008 **Cyprus Research Promotion Foundation**
Competitive nationally awarded grant for PhD studies (ΠΕΝΕΚ program) from the national funding agency of Cyprus
- 2004 **University of Cyprus – final year prize**
Awarded as one of top two Physics BSc graduates

Invited talks and lectures

- 2018 **“Form Factors and Moments of Nucleon PDFs From Lattice QCD”**, invited talk, ECT* workshop titled: Mapping Parton Distribution Amplitudes and Functions, 10th September 2018, ECT*, Trento, Italy
- 2018 **“Nucleon structure from lattice QCD”**, invited talk, 8th international conference on Physics Opportunities at an Electron-Ion Collider (POETIC) 2018, 19th March 2018, Regensburg, Germany
- 2017 **“Spin structure of the nucleon”**, invited parallel talk, International conference on Electromagnetic Interactions in Nucleons and Nuclei (EINN) 2017, 1st November 2017, Paphos, Cyprus
- 2017 **“Nucleon and Δ structure results from lattice QCD”**, invited parallel talk (given remotely) at the 11th International Workshop on the Physics of Excited Nucleons (NSTAR) 2017, 20th to 23rd August 2017, Columbia, SC, USA
- 2017 **“Nucleon structure and dynamics from lattice QCD”**, invited plenary talk at the Electron Ion Collider User Group Meeting (EICUG) 2017, 20th July 2017, Trieste, Italy

- 2017 **“Disconnected loops”**, invited talk at the workshop titled: Lattice QCD at the physical pion mass: results, challenges and modern techniques, 11th April 2017, DESY-Zeuthen, Germany
- 2016 **“Quark and gluon contributions to the spin and momentum of the nucleon from lattice QCD”**, invited parallel talk at the 7th international conference on Physics Opportunities at an Electron-Ion Collider (POETIC) 2016, 14th to 18th November 2016, Temple University, PA, US
- 2016 **“Nucleon structure and the neutron Electric Dipole Moment from twisted mass lattice QCD”** invited plenary talk at LightCone 2016 Conference, 5th to 8th September 2016, IST, University of Lisbon, Lisbon, Portugal
- 2016 **“Tensor charge from lattice QCD”** invited talk at the ECT* workshop titled: Parton TMDs at large x: a window into parton dynamics in nucleon structure within QCD, 11th to 15th April 2016, ECT*, Trento, Italy
- 2015 **“Review of hadron structure from lattice QCD”**, invited plenary talk, International conference on Electromagnetic Interactions in Nucleons and Nuclei (EINN) 2015, 3rd - 7th November 2015, Paphos, Cyprus
- 2015 **“Revealing the structure of matter using large scale simulations”**, invited talk at the 2nd Workshop on Scientific Applications of Computing, 27th November 2015, Nicosia, Cyprus
- 2015 **“Optimization and performance modeling”**, invited lecture and hands-on tutorial at Lattice Practices 2015, 14th - 16th October 2015, Jülich, Germany
- 2015 **“Nucleon structure from lattice QCD”**, invited talk at the 6th Workshop of the APS Topical Group on Hadronic Physics, 8th - 10th April 2015, Baltimore, MD, USA
- 2014 **“Optimization”**, lecture and hands-on tutorial at Lattice Practices, 5th - 7th March 2014, DESY-Zeuthen, Germany
- 2013 **“Hadronic structure from lattice QCD”** invited talk at the International Conference on Scientific Computing (CSC) 2013, 11th - 14th December 2013, Paphos, Cyprus
- 2013 **“Introduction to hadron structure from lattice QCD”** invited lecture at the International conference on Electromagnetic Interactions in Nucleons and Nuclei (EINN) 2013, 28th October - 2nd November 2013, Paphos, Cyprus
- 2013 **“Optimization for Intel architectures”**, lecture and hands-on tutorial at Lattice Practices 2012, 10th - 12th October 2012, DESY-Zeuthen, Germany

Publications

Peer-reviewed publications

1. **“Simulating twisted mass fermions at physical light, strange and charm quark masses”**. By C. Alexandrou et al. In: *Phys. Rev. D*98.5 (2018), p. 054518. DOI: 10.1103/PhysRevD.98.054518. arXiv: 1807.00495 [hep-lat]
2. **“Strange nucleon electromagnetic form factors from lattice QCD”**. by C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. Vaquero Avilés-Casco. In: *Phys. Rev. D*97.9 (2018), p. 094504. DOI: 10.1103/PhysRevD.97.094504. arXiv: 1801.09581 [hep-lat]
3. **“Topological susceptibility from twisted mass fermions using spectral projectors and the gradient flow”**. By C. Alexandrou, A. Athenodorou, K. Cichy, M. Constantinou, D. P. Horkel, K. Jansen, G. Koutsou, and C. Larkin. In: *Phys. Rev. D*97.7 (2018), p. 074503. DOI: 10.1103/PhysRevD.97.074503. arXiv: 1709.06596 [hep-lat]
4. **“Nucleon Spin and Momentum Decomposition Using Lattice QCD Simulations”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, A. Vaquero Avilés-Casco, and C. Wiese. In: *Phys. Rev. Lett.* 119.14 (2017), p. 142002. DOI: 10.1103/PhysRevLett.119.142002. arXiv: 1706.02973 [hep-lat]
5. **“Nucleon electromagnetic form factors using lattice simulations at the physical point”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. Vaquero Aviles-Casco. In: *Phys. Rev. D*96.3 (2017), p. 034503. DOI: 10.1103/PhysRevD.96.034503. arXiv: 1706.00469 [hep-lat]
6. **“Nucleon axial form factors using $N_f = 2$ twisted mass fermions with a physical value of the pion mass”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. Vaquero Aviles-Casco. In: *Phys. Rev. D*96.5 (2017), p. 054507. DOI: 10.1103/PhysRevD.96.054507. arXiv: 1705.03399 [hep-lat]
7. **“Nucleon scalar and tensor charges using lattice QCD simulations at the physical value of the pion mass”**. By C. Alexandrou et al. In: *Phys. Rev. D*95.11 (2017). [erratum: *Phys. Rev. D*96,no.9,099906(2017)], p. 114514. DOI: 10.1103/PhysRevD.96.099906, 10.1103/PhysRevD.95.114514. arXiv: 1703.08788 [hep-lat]
8. **“Position space method for the nucleon magnetic moment in lattice QCD”**. by C. Alexandrou, M. Constantinou, G. Koutsou, K. Ottnad, and M. Petschlies. In: *Phys. Rev. D*94.7 (2016), p. 074508. DOI: 10.1103/PhysRevD.94.074508. arXiv: 1605.07327 [hep-lat]
9. **“Direct Evaluation of the Quark Content of Nucleons from Lattice QCD at the Physical Point”**. By A. Abdel-Rehim, C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. Vaquero Aviles-Casco. In: *Phys. Rev. Lett.* 116.25 (2016), p. 252001. DOI: 10.1103/PhysRevLett.116.252001. arXiv: 1601.01624 [hep-lat]

10. **“Neutron electric dipole moment using $N_f = 2 + 1 + 1$ twisted mass fermions”**. By C. Alexandrou, A. Athenodorou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, G. Koutsou, K. Ottnad, and M. Petschlies. In: *Phys. Rev. D* 93.7 (2016), p. 074503. DOI: 10.1103/PhysRevD.93.074503. arXiv: 1510.05823 [hep-lat]
11. **“First physics results at the physical pion mass from $N_f = 2$ Wilson twisted mass fermions at maximal twist”**. By A. Abdel-Rehim et al. In: *Phys. Rev. D* 95.9 (2017), p. 094515. DOI: 10.1103/PhysRevD.95.094515. arXiv: 1507.05068 [hep-lat]
12. **“Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass”**. By A. Abdel-Rehim et al. In: *Phys. Rev. D* 92.11 (2015). [Erratum: *Phys. Rev. D* 93, no. 3, 039904 (2016)], p. 114513. DOI: 10.1103/PhysRevD.92.114513, 10.1103/PhysRevD.93.039904. arXiv: 1507.04936 [hep-lat]
13. **“First moment of the flavour octet nucleon parton distribution function using lattice QCD”**. by C. Alexandrou, M. Constantinou, S. Dinter, V. Drach, K. Hadjiyiannakou, K. Jansen, G. Koutsou, and A. Vaquero. In: *JHEP* 06 (2015), p. 068. DOI: 10.1007/JHEP06(2015)068. arXiv: 1501.03734 [hep-lat]
14. **“Baryon spectrum with $N_f = 2 + 1 + 1$ twisted mass fermions”**. By C. Alexandrou, V. Drach, K. Jansen, C. Kallidonis, and G. Koutsou. In: *Phys. Rev. D* 90.7 (2014), p. 074501. DOI: 10.1103/PhysRevD.90.074501. arXiv: 1406.4310 [hep-lat]
15. **“Disconnected quark loop contributions to nucleon observables in lattice QCD”**. by A. Abdel-Rehim, C. Alexandrou, M. Constantinou, V. Drach, K. Hadjiyiannakou, K. Jansen, G. Koutsou, and A. Vaquero. In: *Phys. Rev. D* 89.3 (2014), p. 034501. DOI: 10.1103/PhysRevD.89.034501. arXiv: 1310.6339 [hep-lat]
16. **“Strangeness of the nucleon from lattice QCD”**. by C. Alexandrou, M. Constantinou, S. Dinter, V. Drach, K. Hadjiyiannakou, K. Jansen, G. Koutsou, and A. Vaquero. In: *Phys. Rev. D* 91.9 (2015), p. 094503. DOI: 10.1103/PhysRevD.91.094503. arXiv: 1309.7768 [hep-lat]
17. **“Evaluation of disconnected quark loops for hadron structure using GPUs”**. By C. Alexandrou, M. Constantinou, V. Drach, K. Hadjiyiannakou, K. Jansen, G. Koutsou, A. Strelchenko, and A. Vaquero. In: *Comput. Phys. Commun.* 185 (2014), pp. 1370–1382. DOI: 10.1016/j.cpc.2014.01.009. arXiv: 1309.2256 [hep-lat]
18. **“Determination of the $\Delta(1232)$ axial and pseudoscalar form factors from lattice QCD”**. by C. Alexandrou, E. B. Gregory, T. Korzec, G. Koutsou, J. W. Negele, T. Sato, and A. Tsapalis. In: *Phys. Rev. D* 87.11 (2013), p. 114513. DOI: 10.1103/PhysRevD.87.114513. arXiv: 1304.4614 [hep-lat]
19. **“Nucleon form factors and moments of generalized parton distributions using $N_f = 2 + 1 + 1$ twisted mass fermions”**. By C. Alexandrou, M. Constantinou, S. Dinter, V. Drach, K. Jansen, C. Kallidonis, and G. Koutsou. In: *Phys. Rev. D* 88.1 (2013), p. 014509. DOI: 10.1103/PhysRevD.88.014509. arXiv: 1303.5979 [hep-lat]

20. **“Nucleon Excited States in $N_f=2$ lattice QCD”**. by C. Alexandrou, T. Korzec, G. Koutsou, and T. Leontiou. In: *Phys. Rev. D* 89.3 (2014), p. 034502. DOI: 10.1103/PhysRevD.89.034502. arXiv: 1302.4410 [hep-lat]
21. **“Meson and Baryon dispersion relations with Brillouin fermions”**. By S. Durr, G. Koutsou, and T. Lippert. In: *Phys. Rev. D* 86 (2012), p. 114514. DOI: 10.1103/PhysRevD.86.114514. arXiv: 1208.6270 [hep-lat]
22. **“Evaluation of fermion loops applied to the calculation of the η' mass and the nucleon scalar and electromagnetic form factors”**. By C. Alexandrou, K. Hadjiyianakou, G. Koutsou, A. O’Cais, and A. Strelchenko. In: *Comput. Phys. Commun.* 183 (2012), pp. 1215–1224. DOI: 10.1016/j.cpc.2012.01.023. arXiv: 1108.2473 [hep-lat]
23. **“The ratio m_c/m_s with Wilson fermions”**. By S. Durr and G. Koutsou. In: *Phys. Rev. Lett.* 108 (2012), p. 122003. DOI: 10.1103/PhysRevLett.108.122003. arXiv: 1108.1650 [hep-lat]
24. **“The $\Delta(1232)$ axial charge and form factors from lattice QCD”**. by C. Alexandrou, E. B. Gregory, T. Korzec, G. Koutsou, J. W. Negele, T. Sato, and A. Tsapalis. In: *Phys. Rev. Lett.* 107 (2011), p. 141601. DOI: 10.1103/PhysRevLett.107.141601. arXiv: 1106.6000 [hep-lat]
25. **“Brillouin improvement for Wilson fermions”**. By S. Durr and G. Koutsou. In: *Phys. Rev. D* 83 (2011), p. 114512. DOI: 10.1103/PhysRevD.83.114512. arXiv: 1012.3615 [hep-lat]
26. **“Nucleon to Delta transition form factors with $N_F = 2 + 1$ domain wall fermions”**. By C. Alexandrou, G. Koutsou, J. W. Negele, Y. Proestos, and A. Tsapalis. In: *Phys. Rev. D* 83 (2011), p. 014501. DOI: 10.1103/PhysRevD.83.014501. arXiv: 1011.3233 [hep-lat]
27. **“The Electromagnetic form factors of the Ω^- in lattice QCD”**. by C. Alexandrou, T. Korzec, G. Koutsou, J. W. Negele, and Y. Proestos. In: *Phys. Rev. D* 82 (2010), p. 034504. DOI: 10.1103/PhysRevD.82.034504. arXiv: 1006.0558 [hep-lat]
28. **“Axial Nucleon and Nucleon to Delta form factors and the Goldberger-Treiman Relations from Lattice QCD”**. by C. Alexandrou, G. Koutsou, T. Leontiou, J. W. Negele, and A. Tsapalis. In: *Phys. Rev. D* 76 (2007). [Erratum: *Phys. Rev. D* 80,099901(2009)], p. 094511. DOI: 10.1103/PhysRevD.80.099901, 10.1103/PhysRevD.76.094511. arXiv: 0706.3011 [hep-lat]
29. **“Quark transverse charge densities in the Delta(1232) from lattice QCD”**. by C. Alexandrou, T. Korzec, G. Koutsou, C. Lorce, J. W. Negele, V. Pascalutsa, A. Tsapalis, and M. Vanderhaeghen. In: *Nucl. Phys. A* 825 (2009), pp. 115–144. DOI: 10.1016/j.nuclphysa.2009.04.005. arXiv: 0901.3457 [hep-ph]

30. **“Delta-baryon electromagnetic form factors in lattice QCD”**. by C. Alexandrou, T. Korzec, G. Koutsou, T. Leontiou, C. Lorce, J. W. Negele, V. Pascalutsa, A. Tsapalis, and M. Vanderhaeghen. In: *Phys. Rev. D* 79 (2009), p. 014507. DOI: 10.1103/PhysRevD.79.014507. arXiv: 0810.3976 [hep-lat]
31. **“A Study of Hadron Deformation in Lattice QCD”**. by C. Alexandrou and G. Koutsou. In: *Phys. Rev. D* 78 (2008), p. 094506. DOI: 10.1103/PhysRevD.78.094506. arXiv: 0809.2056 [hep-lat]
32. **“Light baryon masses with dynamical twisted mass fermions”**. By C. Alexandrou et al. In: *Phys. Rev. D* 78 (2008), p. 014509. DOI: 10.1103/PhysRevD.78.014509. arXiv: 0803.3190 [hep-lat]
33. **“Nucleon to delta electromagnetic transition form factors in lattice QCD”**. by C. Alexandrou, G. Koutsou, H. Neff, J. W. Negele, W. Schroers, and A. Tsapalis. In: *Phys. Rev. D* 77 (2008), p. 085012. DOI: 10.1103/PhysRevD.77.085012. arXiv: 0710.4621 [hep-lat]
34. **“The Nucleon electromagnetic form factors from Lattice QCD”**. by C. Alexandrou, G. Koutsou, J. W. Negele, and A. Tsapalis. In: *Phys. Rev. D* 74 (2006), p. 034508. DOI: 10.1103/PhysRevD.74.034508. arXiv: hep-lat/0605017 [hep-lat]
35. **“The Static tetraquark and pentaquark potentials”**. By C. Alexandrou and G. Koutsou. In: *Phys. Rev. D* 71 (2005), p. 014504. DOI: 10.1103/PhysRevD.71.014504. arXiv: hep-lat/0407005 [hep-lat]

Under peer-review

36. **“ $\langle x \rangle$ and $\langle x^2 \rangle$ of the pion PDF from Lattice QCD with $N_f = 2+1+1$ dynamical quark flavours”**. By M. Oehm, C. Alexandrou, M. Constantinou, K. Jansen, G. Koutsou, B. Kostrzewa, F. Steffens, C. Urbach, and S. Zafeiropoulos. In: (2018). arXiv: 1810.09743 [hep-lat]

Conference proceedings

37. **“Nucleon spin structure from lattice QCD”**. by C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. V. Avilés-Casco. In: (2018). arXiv: 1807.11214 [hep-lat]
38. **“Connected and disconnected contributions to nucleon axial form factors using $N_f = 2$ twisted mass fermions at the physical point”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. V. Avilés-Casco. In: *EPJ Web Conf.* 175 (2018), p. 06003. DOI: 10.1051/epjconf/201817506003. arXiv: 1807.11203 [hep-lat]
39. **“Computation of parton distributions from the quasi-PDF approach at the physical point”**. By C. Alexandrou, S. Bacchio, K. Cichy, M. Constantinou, K. Hadjiyiannakou, K. Jansen, G. Koutsou, A. Scapellato, and F. Steffens. In: *EPJ Web Conf.*

- 175 (2018), p. 14008. DOI: 10.1051/epjconf/201817514008. arXiv: 1710.06408 [hep-lat]
40. **“Nucleon Structure and the Neutron Electric Dipole Moment from Twisted Mass Lattice QCD”**. by G. Koutsou. In: *Few Body Syst.* 58.2 (2017), p. 104. DOI: 10.1007/s00601-017-1265-7
 41. **“Nucleon electromagnetic and axial form factors with $N_f=2$ twisted mass fermions at the physical point”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, K. Ottnad, and A. Vaquero. In: *PoS LATTICE2016* (2016), p. 154. DOI: 10.22323/1.256.0154. arXiv: 1702.00984 [hep-lat]
 42. **“On the suitability of the Brillouin action as a kernel to the overlap procedure”**. By S. Durr and G. Koutsou. In: (2017). arXiv: 1701.00726 [hep-lat]
 43. **“Nucleon spin and quark content at the physical point”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, C. Kallidonis, G. Koutsou, K. Jansen, C. Wiese, and A. V. Avilés-Casco. In: *PoS LATTICE2016* (2016), p. 153. DOI: 10.22323/1.256.0153. arXiv: 1611.09163 [hep-lat]
 44. **“Disconnected diagrams with twisted-mass fermions”**. By A. Abdel-Rehim, C. Alexandrou, M. Constantinou, J. Finkenrath, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, A. V. Avilés-Casco, and J. Volmer. In: *PoS LATTICE2016* (2016), p. 155. DOI: 10.22323/1.256.0155. arXiv: 1611.03802 [hep-lat]
 45. **“A study of the radiative transition $\pi\pi \rightarrow \pi\gamma^*$ with lattice QCD”**. by L. Leskovec, C. Alexandrou, G. Koutsou, S. Meinel, J. W. Negele, S. Paul, M. Petschlies, A. Pochinsky, G. Rendon, and S. Syritsyn. In: *PoS LATTICE2016* (2016), p. 159. DOI: 10.22323/1.256.0159. arXiv: 1611.00282 [hep-lat]
 46. **“First numerical experiences with overlap fermions based on the Brillouin kernel”**. By S. Durr and G. Koutsou. In: *PoS LATTICE2016* (2016), p. 249. DOI: 10.22323/1.256.0249. arXiv: 1610.06798 [hep-lat]
 47. **“Recent results for the proton spin decomposition from lattice QCD”**. by C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, C. Kallidonis, G. Koutsou, K. Jansen, H. Panagopoulos, F. Steffens, A. Vaquero, and C. Wiese. In: *PoS DIS2016* (2016), p. 240. DOI: 10.22323/1.265.0240. arXiv: 1609.00253 [hep-lat]
 48. **“The electric dipole moment of the neutron from $N_f = 2 + 1 + 1$ twisted mass fermions”**. By C. Alexandrou, A. Athenodorou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, G. Koutsou, K. Ottnad, and M. Petschlies. In: *PoS LATTICE2015* (2016), p. 131. DOI: 10.22323/1.251.0131. arXiv: 1511.04942 [hep-lat]
 49. **“Disconnected quark loop contributions to nucleon observables using $N_f = 2$ twisted clover fermions at the physical value of the light quark mass”**. By A. Abdel-Rehim, C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, G. Koutsou, and A. V. Avilés-Casco. In: *PoS LATTICE2015* (2016), p. 136. DOI: 10.22323/1.251.0136. arXiv: 1511.00433 [hep-lat]

50. **“Nucleon electromagnetic form factors from twisted mass lattice QCD”**. by A. Abdel-Rehim, C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, and G. Koutsou. In: *PoS LATTICE2014* (2015), p. 148. DOI: 10.22323/1.214.0148. arXiv: 1501.01480 [hep-lat]
51. **“Baryon spectrum with $N_f = 2 + 1 + 1$ twisted mass fermions”**. By C. Alexandrou, V. Drach, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, and G. Koutsou. In: *PoS LATTICE2014* (2015), p. 100. DOI: 10.22323/1.214.0100. arXiv: 1412.0925 [hep-lat]
52. **“Nucleon observables and axial charges of other baryons using twisted mass fermions”**. By C. Alexandrou, M. Constantinou, K. Hadjiyiannakou, K. Jansen, C. Kallidonis, and G. Koutsou. In: *PoS LATTICE2014* (2015), p. 151. DOI: 10.22323/1.214.0151. arXiv: 1411.3494 [hep-lat]
53. **“Extraction of the isovector magnetic form factor of the nucleon at zero momentum”**. By C. Alexandrou, M. Constantinou, G. Koutsou, K. Ottnad, and M. Petschlies. In: *PoS LATTICE2014* (2015), p. 144. DOI: 10.22323/1.214.0144. arXiv: 1410.8818 [hep-lat]
54. **“Results on the disconnected contributions for hadron structure”**. By C. Alexandrou, M. Constantinou, V. Drach, K. Hadjiyiannakou, K. Jansen, G. Koutsou, and A. Vaquero Aviles-Casco. In: *PoS LATTICE2014* (2014), p. 140. DOI: 10.22323/1.214.0140. arXiv: 1410.8761 [hep-lat]
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