# Curriculum Vita

# Michael R. Dugger

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# Professional preparation

|                | Institution                       | Major/Conc.         | Degree, Year |
|----------------|-----------------------------------|---------------------|--------------|
| Undergraduate: | Northern Arizona State University | Physics/Mathematics | B.S., 1993   |
| Graduate:      | Arizona State University          | Physics             | Ph.D., 2001  |
| Postdoctoral:  | Arizona State University          | Physics             | 2002-2006    |

# **Appointments**

| Associate Professor (tenure-track) | Arizona State University | 2017 to present |
|------------------------------------|--------------------------|-----------------|
| Associate Research Professor       | Arizona State University | 2013-2017       |
| Assistant Research Professor       | Arizona State University | 2006-2013       |
| Postdoctoral Research Associate    | Arizona State University | 2002-2006       |

# Research grants

**2022-2025**: Department of Energy **grant renewal** for "Experimental Medium Energy Physics at Arizona State University" (PI: M. Dugger, 100%, award number DE-SC0020404, award amount: \$506,000 (received thus far: \$149,000)

**2019-2022**: Department of Energy grant "Experimental Medium Energy Physics at Arizona State University" (PI: M. Dugger, 100%, award number DE-SC0020404, award amount: \$450,000)

**2013-2018**: National Science Foundation grant "Meson Physics at Arizona State University" (PI: B.G. Ritchie 50%, Co-PI: M. Dugger 50%, award number PHY-1306737, award amount: \$530,000)

**2010-2013**: National Science Foundation grant "Meson Physics at Arizona State University" (PI: B.G. Ritchie 50%, Co-PI: M. Dugger 50%, award number PHY-0969201, award amount: \$510,000)

**2007-2010**: National Science Foundation grant "Meson Physics at Arizona State University" (PI: B.G. Ritchie 33%, Co-PI: E. Pasyuk 33%, Co-PI: M. Dugger 33%, award number PHY-0653630, award amount: \$480,000)

#### Honors and Awards

2002: Mark Anderson Outstanding Doctoral Thesis Award

1993: Vesto Melvin Slipher Scholarship in the Sciences

1992: Northern Arizona University, Department of Physics Achievement Award

# Teaching experience

# 2017-present: Arizona State University, Polytechnic Campus, Mesa, AZ

- PHY 112 General Physics II
- PHY 121 University Physics I
- PHY 131 University Physics II
- PHY 252 University Physics III
- PHY 321 Vector Mechanics and Vibrations
- PHY 331 Principles of Modern Electromagnetism
- PHY 394 Basics of Medical Physics
- PHY 456 Lasers Optics
- PHY 493 Honors Thesis
- PHY 495 Project Research
- PHY 499 Individualized Instruction

# 2016: Arizona State University, West Campus, Glendale, AZ

PHY 113 - University Physics Lab I

# 1994-2016: Arizona State University, Tempe Campus, Tempe, AZ

- PHY 101 Introduction to Physics
- PHY 111 Recitation for General Physics I
- PHY 112 Recitation for General Physics II
- PHY 113 General Physics Lab I
- PHY 132 University Physics Lab I
- PHY 361 Recitation for Introduction to Modern Physics
- PHY 495 Project Research
- PHY 499 Individualized Instruction

#### Former Ph.D. students

#### Brandon Sumner, Ph.D. thesis defended on April 11, 2022, ASU

Title: Study of Excited Cascade Baryons and Preliminary Cross-Sections for  $\Xi(1530)$  Using Data from the GlueX Experiment

Awards and Fellowship:

- NSF Postdoctoral Fellow (MPS Ascend), 2022-2025
- ASU Department of Physics Outstanding Graduate Student Award, May, 2022
- ASU College of Liberal Arts and Sciences Outstanding Graduate Student Award, May, 2022

#### Sebastian Cole, Ph.D. thesis defended on July 2, 2021, ASU

Title: Partial Wave Analysis of Meson Resonances That Decay  $K^*\overline{K}$  Using Data from the GlueX Experiment

Award:

• ASU College of Integrative Sciences and Arts Outstanding Graduate Student Award, December, 2020

# Additional mentoring

# Sponsoring Scientist for Postdoctoral Fellow

• Brandon Sumner, NFS Postdoctoral Fellow (MPS Ascend), 2022-present

#### Adviser for Ph.D. students:

• Alan Gardner (August 2020-present)

Project: Survey of mesons that decay to  $K^+K^-\pi^0$  states in GlueX data

• Katelyn Hernandez (December 2022-present)

Project: Survey of  $\Xi$  baryons in GlueX and CLAS12 data

#### Chair of Honors Thesis Committee:

• Robert Lee (2017-2018)

Project: Extraction of H and P Observables for  $\gamma p \to \pi^+ n$ 

Awards during mentorship:

- CLAS Dean's Medalist, May 2018
- Barrett Honors College Senior Project Award in Physics, May 2018
- Physics Department Outstanding Undergraduate Award, May 2018
- John and Richard Jacob Award for Undergraduate Research Award, May 2018
- Patrick Walker (2020-2021)

Project: Meson decay in  $ep \to epK^+K^-$  and  $ep \to epK^+K^-\pi^0$  events Award during mentorship:

- ASU Department of Physics Undergraduate Research Award, spring 2021
- Rebeca Osar (2019-present)

Project: Search for excited  $\Lambda$  states

# Primary mentor for the following undergraduates:

• Shep Bryan (2017-2018)

Project: Simulation of CLAS12 detector

• Eric Bryan (2018)

Project: Particle ID studies

• Mohamed (2019-2020)

Projects: Simulations studies of therapy beams, and Particle ID studies Award during mentorship:

- College of Integrative Sciences and Arts Undergraduate Research Award, May 2020
- Kevin Scheuer (2019-2020)

Project: Machine learning methods for  $K\pi$  identification

• Emily Lamagna (2021)

Project: Invariant mass of the  $\phi \pi^0$  System

• Anna Costelle (2021)

Project: Construction of Event Generators for Strangeness-Containing Final States Award during mentorship:

- ASU Women in Physics Award for Undergraduate Research, May 2021
- Joshua Grumski-Flores (2021-2022)

Project: Simulation of Pair Spectrometer

Award during mentorship:

- Department of Physics Research Award, spring 2022
- Shane Watters (2021-2022)

Project:  $\Lambda$  detection efficiency using the CLAS12 detector

• Randy Montoya (2022)

Project: Simulation, and machine-learning diagnostics of brain cancer

• Luis Dorantes (2022-present)

Project: Simulation and tomography of CT-scan data

• Joshua Russell (2022-present)

Project: Using CLAS12 data to reconstruct ground-state  $\Xi$  baryon

#### Service 2017-present

#### **Profession**

- Chaired the Nuclear Physics session of the 2020 American Physical Society Four Corners Meeting
- Member of the International Advisory Committee for the MENU (Meson Nucleon) 2019 Conference.
- Review Committee member of the MENU 2019 Conference.
- Review Committee member of the 2018 Division of Nuclear Physics, Conference Experience for Undergraduates.
- Reviewer for Physical Review Letters (2018).
- Reviewer for Physical Reviews C (2017,2020).

#### University

- Poly Science and Mathematics (PSM) Safety Committee 2021-present
- Member of the Faculty Review Committee for the 2023 Graduate College Enrichment Fellowship.
- Member of the Graduate College review committee for the 2023 Completion Fellowship.
- Member of the Graduate College review committee for the 2022 ARCS (Achievement Rewards for College Scientists) Fellowship.
- Member of the Graduate College review committee for the 2020 Completion Fellowship.
- Member of the Graduate College review committee for the 2019 ARCS Fellowship.
- Member of the Graduate College review committee for the 2018 Completion Fellowship.

#### Invited talks

- 1. CLAS baryon spectroscopy programme, The 13th International Workshop on the Physics of Excited Nucleons,  $N^*$  2022, Santa Margherita Ligure, Italy, October 18, 2022
- 2. Overview of Spectroscopy Results in Meson Photoproduction with Polarization Observables, XVI International Conference on Hadron Spectroscopy, HADRON 2015, Newport News, Virginia, September 14, 2015
- 3. Latest results from the CLAS  $N^*$  polarization program, American Physical Society, Denver, Colorado, April 16, 2013
- 4. First data from FROST, JLab Users Group Meeting, Jefferson Lab, Newport News, Virginia, June 8, 2011

- 5. Non-strange pseudoscalar photoproduction from the proton, Seminar at Idaho State University, Pocatello, ID, April 15, 2010
- 6.  $\Sigma$  for  $\gamma p \to p \pi^0$ ,  $n \pi^+$  and  $p \eta$  from CLAS g8b run period with 0.95 GeV  $< E_{\gamma} < 1.2$  GeV, Narrow Nucleon Resonances Workshop, University of Edinburgh, Scotland, June 8, 2009
- 7. Pseudoscalar meson photoproduction with CLAS, George Washington University Nuclear Physics Seminar, Washington D.C., March 11, 2008
- 8. Photoproduction of  $\eta$  and  $\eta'$  Mesons from the Proton, The eleventh International Conference on Meson-Nucleon Physics and the Structure of the Nucleon, MENU 2007, Juelich, Germany, September 10, 2007
- 9. S=0 pseudoscalar photoproduction from the proton, The fifth annual International Workshop on Physics of Excited Nucleons,  $N^*$  2005, Tallahassee, Florida, October 14, 2005

#### Scholar Metric

H-index from Web of Science = 45

#### Publications in refereed journals

- 1. I. Strakovsky, W. J. Briscoe, O. Cortes Becerra, M. Dugger, G. Goldstein, V. L. Kashevarov, A. Schmidt, P. Solazzo and B.-G. Yu, *Pseudoscalar and scalar meson photoproduction interpreted by Regge phenomenology*, Phys. Rev. C **107** (2023), p. 015203
- 2. S. Adhikari et al., Measurement of spin density matrix elements in  $\Lambda(1520)$  photoproduction at 8.2–8.8 GeV 105 (2022) (3)
- 3. S. Diehl et al., Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive π<sup>+</sup> Electroproduction off Protons in the Valence Region, Physical Review Letters 128 (2022) (6)
- 4. S. Adhikari et al., Search for photoproduction of axionlike particles at GlueX, Physical Review D 105 (2022) (5)
- 5. N. Zachariou et al., Beam-spin asymmetry  $\Sigma$  for  $\Sigma$  hyperon photoproduction off the neutron, Physics Letters B **827** (2022), p. 136985
- 6. U. Shrestha et al., Differential cross sections for  $\Lambda(1520)$  using photoproduction at CLAS, Physical Review C 103 (2021) (2)
- 7. N. Zachariou et al., Double polarisation observable G for single pion photoproduction from the proton, Physics Letters B 817 (2021), p. 136304
- 8. S. Adhikari et al., Measurement of beam asymmetry for  $\pi^-\Delta^{++}$  photoproduction on the proton at  $E_{\gamma} = 8.5$  GeV, Physical Review C **103** (2021) (2)

- 9. T. Hayward et al., Observation of Beam Spin Asymmetries in the Process ep  $\rightarrow e\pi^+\pi^-X$  with CLAS12, Physical Review Letters **126** (2021) (15)
- 10. M. Carver et al., Photoproduction of the  $f_2(1270)$  Meson Using the CLAS Detector, Physical Review Letters 126 (2021) (8)
- 11. S. Adhikari *et al.*, *The GlueX beamline and detector*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **987** (2021), p. 164807
- 12. T. Hu et al., Photoproduction of  $\eta$  mesons off the proton for  $1.2 < E_{\gamma} < 4.7$  GeV using CLAS at Jefferson Laboratory, Physical Review C 102 (2020) (6)
- 13. A. Celentano et al., First measurement of direct photoproduction of the  $a_2^0(1320)$  meson on the proton, Physical Review C **102** (2020) (3)
- 14. S. Adhikari et al., Measurement of the photon beam asymmetry in  $\vec{\gamma}p \to K^+\Sigma^0$  at GeV, Physical Review C **101** (2020) (6)
- 15. A. Schmidt et al., Probing the core of the strong nuclear interaction, Nature 578 (2020) (7796), pp. 540–544
- 16. S. Adhikari et al., Beam asymmetry  $\Sigma$  for the photoproduction of  $\eta$  and  $\eta'$  mesons at  $E_{\gamma} = 8.8 \ GeV$ , Physical Review C **100** (2019) (5)
- 17. A. Ali et al., First Measurement of Near-Threshold  $J/\Psi$  Exclusive Photoproduction off the Proton, Physical Review Letters 123 (2019) (7)
- 18. P. Roy et al., First Measurements of the Double-Polarization Observables F,P and H in  $\omega$  Photoproduction off Transversely Polarized Protons in the Resonance Region, Physical Review Letters **122** (2019) (16)
- 19. E. Golovatch et al., First results on nucleon resonance photocouplings from the  $\gamma p \to \pi^+\pi^-p$  reaction, Physics Letters B **788** (2019), pp. 371–379
- 20. M. C. Kunkel et al., Exclusive photoproduction of  $\pi^0$  up to large values of Mandelstam variables s,t and u with CLAS, Physical Review C **98** (2018) (1)
- 21. J. Bono et al., First measurement of Ξ<sup>−</sup> polarization in photoproduction, Physics Letters B **783** (2018), pp. 280–286
- 22. P. Roy et al., Measurement of the beam asymmetry  $\Sigma$  and the target asymmetry T in the photoproduction of  $\omega$  mesons off the proton using CLAS at Jefferson Laboratory, Physical Review C **97** (2018) (5)
- 23. S. Lombardo et al., Photoproduction of  $K^+K^-$  meson pairs on the proton, Physical Review D **98** (2018) (5)

- 24. A. Anisovich, V. Burkert, M. Dugger, E. Klempt, V. Nikonov, B. Ritchie, A. Sarantsev and U. Thoma, *Proton-η' interactions at threshold*, Physics Letters B **785** (2018), pp. 626–630,
  - URL: https://doi.org/10.1016%2Fj.physletb.2018.06.034
- 25. J. T. Goetz et al.,  $\Xi^*$  photoproduction from threshold to W=3.3~GeV, Physical Review C 98 (2018) (6)
- 26. M. Dugger, B. Ritchie, N. Sparks, K. Moriya, R. Tucker, R. Lee, B. Thorpe, T. Hodges, F. Barbosa, N. Sandoval and R. Jones, *Design and construction of a high-energy photon polarimeter*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 867 (2017), pp. 115–127
- 27. P. T. Mattione et al., Differential cross section measurements for  $\gamma n \to \pi^- p$  above the first nucleon resonance region, Physical Review C **96** (2017) (3)
- 28. A. Anisovich et al., Differential cross sections and polarization observables from CLAS K\* photoproduction and the search for new N\* states, Physics Letters B **771** (2017), pp. 142–150
- 29. H. A. Ghoul et al., Measurement of the beam asymmetry  $\Sigma$  for  $\pi^0$  and  $\eta$  photoproduction on the proton at  $E_{\gamma} = 9$  GeV, Physical Review C **95** (2017) (4)
- 30. Z. Akbar et al., Measurement of the helicity asymmetry E in  $\omega \to \pi^+\pi^-\pi^0$  photoproduction, Physical Review C **96** (2017) (6)
- 31. A. Anisovich, V. Burkert, P. Collins, M. Dugger, E. Klempt, V. Nikonov, B. Ritchie, A. Sarantsev and U. Thoma,  $N^* \to N\eta'$  decays from photoproduction of  $\eta'$ -mesons off protons, Physics Letters B **772** (2017), pp. 247–252
- 32. P. Collins et al., Photon beam asymmetry  $\Sigma$  for  $\eta$  and  $\eta'$  photoproduction from the proton, Physics Letters B **771** (2017), pp. 213–221
- 33. P. Collins et al., Photon beam asymmetry  $\Sigma$  in the reaction  $\gamma p \to p\omega$  for  $E_{\gamma} = 1.152$  to 1.876 GeV, Physics Letters B 773 (2017), pp. 112–120
- 34. I. Senderovich et al., First measurement of the helicity asymmetry E in  $\eta$  photoproduction on the proton, Physics Letters B **755** (2016), pp. 64–69
- 35. C. A. Paterson et al., Photoproduction of  $\Lambda$  and  $\Sigma^0$  hyperons using linearly polarized photons, Physical Review C **93** (2016) (6)
- 36. R. Dickson et al., Photoproduction of the  $f_1(1285)$  meson, Physical Review C 93 (2016) (6)
- 37. B. Dey et al., "Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction  $\gamma p \to \phi p$ ", Physical Review C 89 (2014) (5)

- 38. B. Dey et al., "Publisher's Note: Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction  $\gamma p \to \phi p$ ", Physical Review C **90** (2014) (1)
- 39. O. Hen et al., Momentum sharing in imbalanced Fermi systems, Science **346** (2014) (6209), pp. 614–617
- 40. K. Moriya et al., Spin and parity measurement of the  $\Lambda(1405)$  baryon, Physical Review Letters **112** (2014) (8)
- 41. H. Seraydaryan et al.,  $\phi$ -meson photoproduction on hydrogen in the neutral decay mode, Physical Review C 89 (2014) (5)
- 42. K. Moriya et al., Publisher's Note: Differential photoproduction cross sections of the  $\Sigma^0(1385)$ ,  $\Lambda(1405)$ , and  $\Lambda(1520)$  (vol 88, 045201 (2013), Physical Review C 88 (2013) (4)
- 43. K. Moriya et al., Differential photoproduction cross sections of the  $\Sigma^0(1385)$ ,  $\Lambda(1405)$ , and  $\Lambda(1520)$ , Physical Review C 88 (2013) (4)
- 44. M. Anghinolfi et al., Comment on "Observation of a narrow structure in  ${}^{1}H(\gamma, K_{S}^{0})X$  via interference with  $\phi$ -meson production", Physical Review C **86** (2012) (6)
- 45. M. E. McCracken et al., Differential cross section and recoil polarization measurements for the reaction  $\gamma p \to K^+ \Sigma^0$  using CLAS at Jefferson Lab, Physical Review C 81 (2010) (2)
- 46. S. A. Pereira et al., Differential cross section of  $\gamma n \to K^+\Sigma^-$  on bound neutrons with incident photons from 1.1 to 3.6 GeV, Physics Letters B **688** (2010) (4-5), pp. 289–293
- 47. Y. Ilieva et al., Evidence for a backward peak in the gammad  $\rightarrow pi^0d$  cross section near the  $\eta$  threshold, The European Physical Journal A 43 (2010) (3), pp. 261–267
- 48. B. Dey et al., Differential cross sections and recoil polarizations for the reaction  $\gamma p \rightarrow K^+ \Lambda$  reaction using CLAS at Jefferson Lab, Physical Review C 82 (2010) (2)
- 49. M. Williams et al., Differential cross sections and spin density matrix elements for the reaction  $\gamma p \to p\omega$ , Physical Review C 80 (2009) (6)
- 50. M. Williams, et al., Differential cross sections for the reactions  $\gamma p \to p \eta$  and  $\gamma p \to p \eta'$ , Physical Review C 80 (2009) (4)
- 51. G. V. Fedotov, et al., Electroproduction of  $p\pi^+\pi^-$  off protons at  $0.2 < Q^2 < 0.6 GeV^2$  and 1.3 < W < 1.57 GeV with the CLAS detector, Physical Review C **79** (2009) (1)
- 52. M. Osipenko et al., Measurement of semi-inclusive  $\pi^+$  electroproduction off the proton, Physical Review D 80 (2009) (3)
- 53. Y. Prok et al., Moments of the spin structure functions  $g_1^p$  and  $g_1^d$  for  $0.05 < Q^2 < 3.0$   $GeV^2$ , Physics Letters B **672** (2009) (1), pp. 12–16

- 54. M. Williams et al., Partial wave analysis of the reaction  $\gamma p \to p\omega$  and the search for nucleon resonances, Physical Review C 80 (2009) (6)
- 55. M. Nozar et al., Search for the Photoexcitation of Exotic Mesons in the System, Physical Review Letters **102** (2009) (10)
- 56. S. A. Morrow et al., Exclusive  $\rho^0$  electroproduction on the proton at CLAS, The European Physical Journal A **39** (2008) (1), pp. 5–31
- 57. D. G. Ireland, et al., Bayesian Analysis of Pentaquark Signals from CLAS Data, Physical Review Letters 100 (2008) (5)
- 58. K. Park, et al., Cross sections and beam asymmetries for  $\vec{e}p \to en\pi^+$  in the nucleon resonance region for  $1.7 \le Q^2 \le GeV^2$ , Physical Review C 77 (2008) (1)
- 59. J. P. Santoro, et al., Electroproduction of  $\phi(1020)$  mesons at  $1.4 \leq Q^2 \leq 3.8~GeV^2$  measured with the CLAS spectrometer, Physical Review C **78** (2008) (2)
- 60. A. S. Biselli, et al., First measurement of target and double spin asymmetries for  $ep \rightarrow ep\pi^0$  in the nucleon resonance region above the  $\Delta(1232)$ , Physical Review C **78** (2008) (4)
- 61. M. H. Wood, et al., Light vector mesons in the nuclear medium, Physical Review C 78 (2008) (1)
- 62. P. E. Bosted, et al., Ratios of <sup>15</sup>N/<sup>12</sup>C and <sup>4</sup>He/<sup>12</sup>C inclusive electroproduction cross sections in the nucleon resonance region, Physical Review C **78** (2008) (1)
- 63. L. Guo et al., Cascade production in the reactions  $\gamma p \to K^+K^+(X)$  and  $\gamma p \to K^+K^+\pi^-(X)$ , Physical Review C **76** (2007) (2)
- 64. I. Hleiqawi et al., Cross sections for the  $\gamma p \to K^{*0}\Sigma^+$  reaction at  $E_{\gamma} = 1.7 3.0$  GeV, Physical Review C **75** (2007) (4)
- 65. K. S. Egiyan et al., Experimental Study of Exclusive  ${}^2H(e,e')n$  Reaction Mechanisms at High  $Q^2$ , Physical Review Letters **98** (2007) (26)
- 66. R. K. Bradford et al., First measurement of beam-recoil observables  $C_x$  and  $C_z$  in hyperon photoproduction, Physical Review C **75** (2007) (3)
- 67. T. Mibe et al., Measurement of coherent φ-meson photoproduction from the deuteron at low energies, Physical Review C **76** (2007) (5)
- 68. H. Denizli et al.,  $Q^2$  dependence of the  $S_{11}(1535)$  photocoupling and evidence for a P-wave resonance in  $\eta$  electroproduction, Physical Review C **76** (2007) (1)
- 69. P. E. Bosted et al., Quark-hadron duality in spin structure functions  $g_1^p$  and  $g_1^d$ , Physical Review C **75** (2007) (3)

- 70. R. Nasseripour et al., Search for Medium Modifications of the  $\rho$  Meson, Physical Review Letters **99** (2007) (26)
- 71. P. Ambrozewicz et al., Separated structure functions for the exclusive electroproduction of  $K^+\Lambda$  and  $K^+\Sigma^0$  final states, Physical Review C **75** (2007) (4)
- 72. M. Dugger et al.,  $\pi^0$  photoproduction on the proton for photon energies from 0.675 to 2.875 GeV, Physical Review C **76** (2007) (2)
- 73. R. Bradford et al., Differential cross sections for  $\gamma p \to K^+ Y$  for  $\Lambda$  and  $\Sigma^0$  hyperons, Physical Review C **73** (2006) (3)
- 74. S. Chen et al., Measurement of Deeply Virtual Compton Scattering with a Polarized-Proton Target, Physical Review Letters 97 (2006) (7)
- 75. M. Ungaro et al., Measurement of the  $N \to \Delta^+(1232)$  Transition at High-Momentum Transfer by  $\pi^0$  Electroproduction, Physical Review Letters **97** (2006) (11)
- 76. M. Osipenko et al., Measurement of the deuteron structure function  $F_2$  in the resonance region and evaluation of its moments, Physical Review C **73** (2006) (4)
- 77. K. Dharmawardane et al., Measurement of the x- and  $Q^2$ -dependence of the asymmetry  $A_1$  on the nucleon, Physics Letters B **641** (2006) (1), pp. 11–17
- 78. M. Battaglieri et al., Search for  $\Theta^+(1540)$  Pentaquark in High-Statistics Measurement of  $\gamma p \to \overline{K}^0 K^+ n$  at CLAS, Physical Review Letters **96** (2006) (4)
- 79. V. Kubarovsky et al., Search for  $\Theta^{++}$  Pentaquarks in the Exclusive Reaction  $\gamma p \to K^+K^-p$ , Physical Review Letters **97** (2006) (10)
- 80. B. McKinnon et al., Search for the  $\Theta^+$  Pentaquark in the Reaction  $\gamma d \to p K^- K^+ n$ , Physical Review Letters **96** (2006) (21)
- 81. S. Niccolai et al., Search for the  $\Theta^+$  Pentaquark in the  $\gamma d \to \Lambda n K^+$  Reaction Measured with the CLAS Spectrometer, Physical Review Letters 97 (2006) (3)
- 82. R. D. Vita et al., Search for the  $\Theta^+$  Pentaquark in the Reactions  $\gamma p \to \overline{K}^0 K^+ n$  and  $\gamma p \to \overline{K}^0 K^0 p$ , Physical Review D **74** (2006) (3)
- 83. M. Dugger et al., Erratum: η Photoproduction on the Proton for Photon Energies from 1.527 to 2.227 GeV [Phys. Rev. Lett 96, 062001 (2006)], Physical Review Letters 96 (2006) (16)
- 84. S. Strauch et al., Beam-Helicity Asymmetries in Double-Charged-Pion Photoproduction on the Proton, Physical Review Letters 95 (2005) (16)
- 85. L. Morand et al., Deeply virtual and exclusive electroproduction of  $\omega$ -mesons, The European Physical Journal A **24** (2005) (3), pp. 445–458

- 86. J. W. Price et al., Exclusive photoproduction of the cascade (Ξ) hyperons, Physical Review C **71** (2005) (5)
- 87. C. Hadjidakis et al., Exclusive  $\rho^0$  meson electroproduction from hydrogen at CLAS, Physics Letters B **605** (2005) (3-4), pp. 256–264
- 88. K. Joo et al., Measurement of the polarized structure function  $\sigma_{LT'}$  for pion electroproduction in the Roper-resonance region, Physical Review C **72** (2005) (5)
- 89. S. Taylor et al., Radiative decays of the  $\Sigma^0(1385)$  and  $\Lambda$  hyperons, Physical Review C **71** (2005) (5)
- 90. S. Taylor et al., Erratum: Radiative decays of the  $\Sigma^0(1385)$  and  $\Lambda$  hyperons, 054609 (2005)], Physical Review C **72** (2005) (3)
- 91. D. Protopopescu et al., Survey of  $A_{LT'}$  asymmetries in semi-exclusive electron scattering on  ${}^{4}He$  and  ${}^{1}2C$ , Nuclear Physics A **748** (2005) (3-4), pp. 357–373
- 92. M. Mirazita et al., Complete angular distribution measurements of two-body deuteron photodisintegration between 0.5 and 3GeV, Physical Review C 70 (2004) (1)
- 93. S. Niccolai et al., Complete measurement of three-body photodisintegration of <sup>3</sup>He for photon energies between 0.35 and 1.55 GeV, Physical Review C **70** (2004) (6)
- 94. J. W. C. McNabb et al., Hyperon photoproduction in the nucleon resonance region, Physical Review C 69 (2004) (4)
- 95. H. Avakian et al., Measurement of beam-spin asymmetries for  $\pi^+$  electroproduction above the baryon resonance region, Physical Review D **69** (2004) (11)
- 96. K. Joo et al., Measurement of the polarized structure function  $\sigma_{LT'}$  for  $p\vec{e}\pi^+n$  in the  $\Delta(1232)$  resonance region, Physical Review C **70** (2004) (4)
- 97. V. Kubarovsky et al., Publisher's Note: Observation of an Exotic Baryon with S=+1 in photoproduction from the proton, (vol 92, art. no. 032001 (2004)], Physical Review Letters **92** (2004) (4)
- 98. A. V. Stavinsky et al., Proton Source Size Measurements in the  $eA \rightarrow e'ppX$  Reaction, Physical Review Letters **93** (2004) (19)
- 99. K. McCormick et al., Tensor polarization of  $\phi$  meson photoproduced at high t, Physical Review C **69** (2004) (3)
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