

**David John Tedeschi**  
Department of Physics and Astronomy  
University of South Carolina  
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### **EDUCATION**

1993 Ph.D. Physics: Rensselaer Polytechnic Institute, Troy, NY  
Department of Education Graduate Fellowship  
1987 BS Physics, Minor Computer Science: Rensselaer Polytechnic Institute, Troy, NY

### **ACADEMIC OR PROFESSIONAL APPOINTMENTS**

2006 – Present Thomas Jefferson National Accelerating Facility User Group Board of Directors  
2004 – Present American Physical Society, Hadronic Physics Topical Group Executive Committee  
2004 – Present Associate Chair and Director of Graduate Studies, Dept. of Physics, USC  
2002 – Present Associate Professor of Physics, University of South Carolina, Columbia, SC  
1997 - 2002 Assistant Professor of Physics, University of South Carolina, Columbia, SC  
1997-1998 Jefferson Lab Bridge Faculty Scientist, TJNAF, Newport News, VA  
1993-1997 Research Associate, University of Pittsburgh, Pittsburgh, PA  
1987-1993 Research Assistant, Rensselaer Polytechnic Institute, Troy, NY  
1986 APS Summer Intern, IBM T.J. Watson Research Ctr., Yorktown Heights, NY  
1984-1985 Co-op Intern, General Electric, Capacitor Products, Hudson Falls, NY

### **AFFILIATIONS AND COLLABORATIONS**

1998 – Present Member of the CLAS Collaboration, TJNAF, Newport News, VA  
Real Photon Physics Working Group  
1997 – 2000 Member of the LEGS Spin Collaboration, BNL, Upton, NY

### **SOCIETY MEMBERSHIPS**

2003 - Present Member of the South Carolina Academy of Science  
2000 - Present Member of the South Carolina Science Council  
1997 - Present Member of the American Association of Physics Teachers  
1992 - Present Member of the American Physical Society  
1992 - Present Member of the APS Division of Nuclear Physics

### **HONORS AND AWARDS**

2007 Univ. of South Carolina, Michael J. Mungo Undergraduate Teaching Award  
2000 Grand Awards Judge Service Award (USC Region II Science Fair)  
1998-1999 Society of Physics Students (SPS) Outstanding Chapter Award  
1998-1999 SPS Marsh W. White Award (Community Outreach)

### **GRADUATE STUDENTS DIRECTLY SUPERVISED**

2005 – Present Isai Sundararaman (Ph.D.) - New Detector Design and Testing for Radiation Therapy  
2003 – Present Michael Paolone (Ph.D.) – Nuclear Medium Effects in  $^4\text{He}$  Spin Observables  
2002 – Present Nathan Baltzell (Ph.D.) – Pentaquark Search Experiments at Jefferson Lab  
1997 – 2002 Matthieu Guillo (Ph.D.) – Search for Unusual Mesons in Photoproduction in CLAS.  
1998 – 2000 Marco Huertas Chacon (M.S.) – Threshold Photoproduction of Phi Mesons.

### **UNDERGRADUATE STUDENTS DIRECTLY SUPERVISED**

2006 – Present Charles Peterson – Adaptive Radiotherapy (Magellan Scholar Proposal)  
2003 – 2005 Yossef Korang-Beheshti – Phi-Meson Photoproduction  
2002 – 2004 Andrew Spooone – Data Analysis using an Object Oriented Framework  
2002 – 2003 Yossef Korang-Beheshti – Midway Physics Day – Data Analysis  
2002 – 2003 Grant Robertson – Midway Physics Day – Data Analysis

- 2002 – 2003 Joshua Witthuhn – Midway Physics Day – Data Analysis  
 1998 - 2001 Travis Garrett – Measuring the Photon Polarization at 400 MeV, (Honors College Senior Thesis)  
 2000 - 2001 Nathan Baltzell – Numerical Calculation of Pair Production by High Energy Photons, (Physics Department Senior Thesis)  
 1998 – 2000 Allyn Powell – Computer Simulation of a Silicon Microstrip Detector System, (Honors College Senior Thesis)  
 1998-1999 Greg Reese - Introductory Physics Demonstration Web Pages

### **HIGH SCHOOL STUDENTS DIRECTLY SUPERVISED**

- 2006 Theodore DuBose – Computer Simulation of Electromagnetic Showers (Summer Project)  
 2003 Alben Lotova – Video Analysis of the Millikin Oil Drop Experiment, (Summer Project)  
 2000-2001 Russell Hart – The Effect of Different Colors of Urethane Skateboard Wheels on the Rate of Wear of the Wheels, Research project for the Discovery Magnet Program for Math and Science at Spring Valley High School

### **COMMITTEES**

#### University:

- 2007 - Present Provost's Gen. Ed. Work Team (Scientific Literacy and Technological Skills)  
 1998 - Present Faculty Advisor Delta Tau Delta Fraternity  
 1999 - 2002 Faculty Senator

#### College:

- 2006 – Present Curriculum Committee  
 2006 Co-Chair, Search for Endowed Chairs in Brain Imaging  
 2005 – 2006 Dean's Academic Planning Council  
 2004 Chair, Search Committee for Marine Science Program Director  
 1999 – 2003 K-12 Outreach Committee  
 2001 Academic Responsibility Committee

#### Department:

- 2004 – Present Graduate Advising Committee (ex-officio)  
 2004 – Present Graduate Admissions and Recruiting (ex-officio)  
 2004 – Present Admission to Candidacy Committee (ex-officio)  
 2004 – Present GAANN Program Mentor  
 1998 – Present Midway Physics Day Committee (Co-chair 2002-Present)  
 1998 – Present Head Physics Judge, SC Region II Science Fair

- 2002 – 2004 Peer Review of Teaching Committee  
 1998 – 2004 Undergraduate Advisor  
 1998 – 2003 Undergraduate Recruitment Committee (Chair)  
 1999 Astronomy Position Search Committee  
 1997 – 2000 Chapter Advisor Society of Physics Students

#### Professional

- 2001 – 2003 Jefferson Lab, CLAS Photon Physics Group (Chair)  
 2000 – 2001 Jefferson Lab, CLAS Speakers Committee (Secretary)  
 1999 Abstract Approval Guidelines Committee  
 1999 Working Group Task Force  
 1999 Provided funding for and served on the Organizing Committee for TJNAF Session at the III Latinamerican Workshop on Nuclear and Heavy Ion Physics, San Andres Islands, Colombia  
 1998 Provided funding for and participated in JLAB/USC/NCCU/GWU joint Workshop on "Polarized Photon Polarimetry" June 2-3, 1998

## **GRANTS**

### National Science Foundation

- David Tedeschi, Chaden Djalali, Ralf Gothe, Steffen Strauch “The Study of Nuclear Physics with Intermediate Energy Probes” 8/1/06 - 7/31/09, \$1,200,000. (Funded)
- David Tedeschi, Chaden Djalali, Ralf Gothe, “The Study of Nuclear Physics with Intermediate Energy Probes” 8/1/03 - 7/31/07, \$900,000. (Funded)
- T. Mousseau, D. Buell, A. Johnson, L. Knapp, J. Lyons (D. Tedeschi is listed under *key personnel*), “SC Steps to STEM”, 05/16/07-05/15/12, \$2,035,667. (Pending)
- T. Crawford, C. Leverette, D. Tedeschi, “Collaborative Research: ARI-MA: Radiation Sensing using Chemically-Controlled Magnetism Integrated with Giant Magnetoresistance Sensor Architectures” 10/01/07-9/30/11, \$1,475,251 (Pending)

### Student Awards

- Charles Peterson, Magellan Scholar Program, “Adaptive Radiotherapy”, 5/15/07 – 5/15/08, \$3,000. (Funded)
- Nathan Baltzell SURA Graduate Fellowship, “A Pentaquark Search at Jefferson Lab”, 8/16/05 - 8/15/07, \$25,000. (Funded)
- Nathan Baltzell, USC Graduate School Travel Grant, 2005. \$250 (Funded)
- Marco Heurtas Chacon, “Operation of the CLAS TOF System”, 2000-2001. \$9000 (Funded/JLab MOU)

## **TEACHING AND OUTREACH PRESENTATIONS**

- Satchel Ford Elementary School Science Day, March 30, 2007.
- Midway Physics Day Public Lecture, AC Flora High School, October 16, 2006.
- Satchel Ford Elementary School Science Day, March 24, 2006.
- Midway Physics Day Public Lecture, AC Flora High School, October 10, 2005.
- Satchel Ford Elementary School Science Day, April 15, 2005.
- Amusement Park Physics and Midway Physics Day, AC Flora High School, October 11, 2004.
- Physics Demonstration Show, USC *Adventures in Science* summer camp, Jun 15, 2004.
- Amusement Park Physics and Midway Physics Day, AC Flora High School, September 29, 2003.
- Roller Coaster Physics: presentation and demonstrations, Crayton Middle School, March 7, 2003.
- Amusement Park Physics and Newton’s Third Law, Advanced Placement Teacher Training Institute, USC, July 12, 2002.
- Amusement Park Physics, AC-Flora High School, Oct 2, 2001.
- Amusement Park Physics, AC-Flora High School, September 14, 2000.
- Web Based Introductory Physics Demonstrations”, Advanced Placement Teacher Training Institute, USC, June 8, 2000.
- What is “Midway Physics Day”, Advanced Placement Teacher Training Institute, USC, June 5, 2000.
- Choosing a Career in Science and Technology, "Dreher High School" April 15, 1999.

## **ARTICLES PUBLISHED IN REFEREED JOURNALS**

1. “First Measurement of Beam-Recoil Observables  $C_x$  and  $C_z$  in Hyperon Photoproduction”, R. Bradford *et al.* (The CLAS Collaboration), Phys. Rev. C **75** (2007) 035205. (nucl-ex/0611034)
2. “Separated Structure Functions for the Exclusive Electroproduction of  $K^+\Lambda$  and  $K^+\Sigma^0$  Final States”, P. Ambrozewicz *et al.* (The CLAS Collaboration), Phys. Rev. C **75** (2007) 045203. (hep-ex/0611036)
3. “Cross Sections for the  $\gamma p \rightarrow K^* \Sigma^+$  Reaction at  $E_\gamma = 1.7-3.0$  GeV”, I. Hleiqawi *et al.* (The CLAS Collaboration), Phys. Rev. C **75** (2007) 042201. (nucl-ex/0701036)
4. “Quark-Hadron Duality in Spin Structure Functions  $g_{1p}$  and  $g_{1d}$ ”, P. Bosted *et al.*, (The CLAS Collaboration), Phys. Rev. C **75** (2007) 035203. (hep-ph/0607283).
5. “Measurement of Deeply Virtual Compton Scattering with a Polarized-Proton Target”, S. Chen *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **97** (2006) 072002. (hep-ex/0605012)
6. “Search for the  $\Theta^+$  Pentaquark in the reactions  $\gamma p \rightarrow \bar{K}^0 K^+ n$  and  $\gamma p \rightarrow \bar{K}^0 K^0 p$ ”, R. DeVita *et al.* (The CLAS Collaboration), Phys. Rev. D. **74** (2006) 032001. (hep-ex/0606062)
7. “Search for  $\Theta^{++}$  Pentaquarks in the Exclusive Reaction  $\gamma p \rightarrow K^+ K^- p$ ”, V. Kubarovsky *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **97**, (2006) 102001. (hep-ex/0605001)
8. “Search for the  $\Theta^+$  Pentaquark in the reaction  $\gamma d \rightarrow \Lambda n K^+$  reaction measured with the CLAS spectrometer”, S. Niccolai *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **97** (2006) 032001. (hep-ex/0604047)
9. “Measurement of the  $N \rightarrow \Delta$  transition at high momentum transfer by  $\pi^0$  electroproduction”, M. Ungaro *et al.* (the CLAS Collaboration) Phys. Rev. Lett. **97** (2006) 112003. (hep-ex/0606042)
10. “Differential Cross Sections for  $\gamma + p \rightarrow K^+ + Y$  for  $\Lambda$  and  $\Sigma^0$  hyperons” R. Bradford *et al.* (The CLAS Collaboration), Phys. Rev. C **73**, (2006) 035202. (nucl-ex/0509033)
11. “Measurement of the  $x$ - and  $Q^2$ -dependence of the spin asymmetry  $A_1$  of the nucleon”, K.V. Dharmawardane *et al.*, (The CLAS Collaboration), Phys. Lett. B **641**, (2006) 11. (nucl-ex/0605028)
12. “Search for the  $\Theta^+$  Pentaquark in the reaction  $\gamma d \rightarrow K^- K^+ n$ ”, B. McKinnon *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **96** (2006) 212001. (hep-ex/0603028)

13. "Single  $\pi^+$  Electroproduction on Proton in the First and Second Resonance Regions at  $0.25 \text{ GeV}^2 < Q^2 < 0.65 \text{ GeV}^2$  Using CLAS", H. Egiyan *et al.* (The CLAS Collaboration), Phys. Rev. C **73** (2006) 025204. (nucl-ex/0601007)
14. Electron Scattering From High-Momentum Neutrons In Deuterium", A. Klimenko *et al.* (The CLAS Collaboration), Rev. C **73** (2006) 035212. (nucl-ex/0510032)
15. "Measurement of 2- and 3-Nucleon Short Range Correlation Probabilities in nuclei", K. S. Egiyan, *et al.* (The CLAS Collaboration). Phys. Rev. Lett. **96** (2006) 082501. (nucl-ex/0508026)
16. "Search for  $\Theta^+(1540)$  pentaquark in high statistics measurement of  $\gamma p \rightarrow K^0 K^+ n$  at CLAS", M. Battaglieri *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **96** (2006) 042001. (hep-ex/0510061)
17. "Eta-prime photoproduction on the proton for energies from 1.527 to 2.526 GeV", M. Dugger *et al.* (the CLAS Collaboration), Phys. Rev. Lett. **96** (2006) 062001. (nucl-ex:0512019)
18. "Measurement Of The Deuteron Structure Function  $F_2$  In The Resonance Region And Evaluation of Its Moments", M. Osipenko *et al.*, (The CLAS Collaboration). Phys. Rev. C **73** (2006) 045205. (hep-ex/0506004)
19. Measurement of the polarized structure function  $\sigma_{LT}^{\prime}$  for pion electroproduction in the Roper-resonance region", K. Joo *et al.* (The CLAS Collaboration), Phys. Rev. C **72** (2005) 058202.
20. "Beam-helicity asymmetries in double-charged pion production on the proton", S. Strauch *et al.*, (The CLAS Collaboration), Phys. Rev. Lett. **95**, (2005) 162003.
21. "Survey of  $A_{LT}$ ' asymmetries in semi-exclusive electron scattering on He4 and C12", D. Protopopescu *et al.* (The CLAS Collaboration), Nucl. Phys. A **748** (2005) 357.
22. "Exclusive  $\rho^0$  Meson Electroproduction from Hydrogen at CLAS", Cynthia Hadjidakis *et al.* (The CLAS Collaboration) Phys. Lett. B **605** (2005) 256.
23. "Deeply Virtual and Exclusive Electroproduction of Omega Mesons" L. Morand *et al.* (The CLAS Collaboration), Eur. Phys. J. A **24** (2005) 445.
24. "Radiative Decays of the  $\Sigma^0(1385)$  and  $\Lambda(1520)$  Hyperons", S. Taylor *et al.* (The CLAS Collaboration), Phys. Rev. C **71** (2005) 054609.
25. "Exclusive Photoproduction of the Cascade ( $\Xi$ ) Hyperons", J. Price *et al.* (The CLAS

- Collaboration), Phys. Rev. C **71** (2005) 058201.
26. Measurement of the Polarized Structure Function  $\sigma_{LT}$  for Pion Electroproduction in the Roper Resonance Region”, K. Joo *et al.* (The CLAS Collaboration), Phys. Rev. C **72** (2005) 058202.
  27. “A Pair Polarimeter for Linearly Polarized High Energy Photons”, C. de Jager, B. Wojtsekhowski, **D. Tedeschi**, B. Vlahovic, D. Abbott, J. Asai, G. Feldman, T. Hotta, M. Khandaker, H. Kohri, T. Matsumara, T. Mibe, T. Nakano, V. Nelyubin, G. Orielly, A. Rudge, P. Weilhammer, M. Wood, T. Yorita, R. Zegers, Eur. Phys. J. A **S19**, (2004) 275.
  28. “Measurement of Beam-Spin Asymmetries for  $e(\text{pol})p \rightarrow e'\pi^+ X$  in the Deeply Inelastic Regime”, H. Avakian, *et al.* (The CLAS Collaboration), Physical Review **D69** (2004) 112004.
  29. “Onset of asymptotic scaling in deuteron photodisintegration”, P. Rossi *et al.* (The CLAS Collaboration) Phys. Rev. Lett. **94** (2004) 012301.
  30. “Complete measurement of three-body photodisintegration of  $^3\text{He}$  for photon energies between 0.35 and 1.55 GeV”, S. Niccolai *et al.* (The CLAS Collaboration) Phys. Rev. C **70** (2004) 064003.
  31. “Proton source size measurements in the  $eA \rightarrow e'ppX$  reaction”, A.V. Stavinsky *et al.* (The CLAS Collaboration) Phys Rev. Lett. **93**, 192301 (2004).
  32. "Measurement of the polarized structure function  $\sigma_{LT}$  for  $p(\vec{e}, e'\pi^+)n$  in the  $\Delta(1232)$  resonance region", K. Joo *et al.* (The CLAS Collaboration) Phys. Rev C **70** (2004) 042201 (R).
  33. “Complete Angular Distribution Measurements of Two-Body Deuteron Photodisintegration between 0.5 and 3 GeV”, M. Mirizita *et al.* (The CLAS Collaboration) Phys. Rev. C **70** (2004) 014005.
  34. “Design of internal superconducting holding magnet for the JLab Hall-B frozen spin polarized target”, O. Dzyubak, C. Djalali, N. Recalde, D. Tedeschi, Nucl. Inst. and Meth. A **526**, 132 (2004).
  35. “Hyperon Photoproduction in the Nucleon Resonance Region”, J.W.C. McNabb, *et al.* (The CLAS Collaboration) Accepted by Phys. Rev. C **69** 042201(R) (2004).
  36. “Tensor Polarization of the Phi Meson Photoproduced at High  $t$ ”, K. McKormick, *et al.* (The CLAS Collaboration) Phys. Rev. C **69** 032203(R) (2004).

37. "Two-Nucleon Momentum Distributions Measured in  ${}^3\text{He}(e,e'pp)n$ ", R. Niyazov, *et al.* (The CLAS Collaboration) Phys. Rev. Lett. **92** 052303 (2004).
38. "Observation of an exotic baryon with  $\{S=+1\}$  in photoproduction from the proton", V. Kubarovsky *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **92**, 032001 (2004).
39. "Observation of an Exotic  $S = +1$  Baryon in Exclusive Photoproduction from the Deuteron", S. Stepanayn, *et al.* (The CLAS Collaboration) Phys. Rev. Lett. **91**, 252001 (2003).
40. "A Pair Polarimeter for Linearly Polarized High Energy Photons", B. Wojtsekhowski, D. J. Tedeschi, B. Vlahovic, Nucl. Inst. and Meth. **A515**, 605 (2003).
41. "Measurement of the Proton Spin Structure Function  $g_1(x,Q^2)$  for  $Q^2$  from 0.15 to 1.6  $\text{GeV}^2$  with CLAS", R. Fatemi, *et al.* (The CLAS Collaboration) Phys. Rev. Lett. **91** (2003) 222002.
42. "Study of the  $\Delta(1232)$  using single and double polarization asymmetries", A. Biselli, *et al.* (The CLAS Collaboration) Phys. Rev. C **68** 035202 (2003).
43. "Measurement of the polarized structure function  $\sigma_{LT}'$  for single  $\pi^0$  electroproduction in the  $\Delta(1232)$  resonance region", K. Joo *et al.* (The CLAS Collaboration), Phys. Rev. C **68**, 032201 (2003).
44. "Observation of nuclear scaling in the  $A(e,e')$  reaction at  $x_B > 1$ ", Kim Egiyan, *et al.* (The CLAS Collaboration), Phys. Rev. C **68** (2003) 014313.
45. "The CEBAF Large Acceptance Spectrometer", B. Mecking, *et al.* Nucl. Inst. and Meth. **503/3** (2003) 513.
46. " $ep \rightarrow e'p \pi^+ \pi^-$  and baryon resonance analysis", M. Ripani, *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **91** (2003) 022002.
47. "First Measurement of Transferred Polarization in the Exclusive  $e(\text{pol})p \rightarrow e'K+\Lambda(\text{pol})$  Reaction", D. Carman, *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **90**, (2003) 131804.
48. "Photoproduction of the omega meson on the proton at large momentum transfer", M. Battaglieri, *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **90**, (2003) 022002.
49. "A Complete Measurement of the F2 Proton Structure Function in the Resonance Region and the Evaluation of the Moments", M. Osipenko, *et al.* (The CLAS Collaboration) Phys. Rev. D **67** (2003) 092001.

50. "Measurement of Inclusive Spin Structure Functions of the Deuteron with CLAS", J. Yun, *et al.* (The CLAS Collaboration), Phys. Rev. C **67** 055204 (2003).
51. "eta photoproduction on the proton for energies from 0.75 to 1.95 GeV", M. Dugger, *et al.* (The CLAS Collaboration) Physical Review Letters **89**, (2002) 222002.
52. "First Measurement of the Double Spin Asymmetry in  $e(\text{pol})p(\text{pol}) \rightarrow e'\pi+n$  in the Resonance Region", R. DeVita, *et al.* (The CLAS Collaboration) Phys. Rev. Lett. **88**, 082001 (2002) 189903(E).
53. "Q<sup>2</sup> Dependence of Quadrupole Strength in  $\gamma^*p \rightarrow \Delta(1232) \rightarrow p(\text{pizero})$  Transition", K. Joo, *et al.* (The CLAS Collaboration). Phys. Rev. Lett. **88**, 122001 (2002).
54. "Observation of exclusive deeply virtual Compton scattering in polarized electron beam asymmetry measurements", S. Stepanyan *et al.* (The CLAS Collaboration), Physical Review Letters **87**, 182002 (2001).
55. "Photoproduction of Rho<sub>0</sub> Meson on the Proton at Large Momentum Transfer", M. Battaglieri *et al.*, (The CLAS Collaboration). Phys. Rev. Lett. **87**, 172002 (2001).
56. "Electroproduction of the Lambda(1520) Hyperon", S. Barrow *et al.*, (The CLAS Collaboration). Accepted by Phys. Rev. C **64** 044601 (2001).
57. "Exclusive electroproduction of phi mesons at 4.2 GeV", K. Lukashin *et al.*, (The CLAS Collaboration), Phys. Rev. C **63** 065205-1 (2001), **64** 059901(E) (2001).
58. "The  $ep \rightarrow e'p(\text{eta})$  reaction at and above the S11(1535) baryon resonance", R. Thompson *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **86**, 1702 (2001).
59. "Photoproduction of phi(1020) Mesons on the Proton at Large Momentum Transfer", E. Ancient *et al.* (The CLAS Collaboration), Phys. Rev. Lett. **85**, 4682 (2000).
60. "The CLAS Drift Chamber System", M.D. Mestayer, D.S. Carman, B. Asavapibhop, F.J. Barbosa, P. Bonneau, S.B. Christo, G.E. Dodge, T. Dooling, W.S. Duncan, S.A. Dytman, R. Feuerbach, G.P. Gilfoyle, V. Gyurjyan, K.H. Hicks, R.S. Hicks, C.E. Hyde-Wright, G. Jacobs, A. Klein, F.J. Klein, M.V. Kossov, S.E. Kuhn, R. Magahiz, R.W. Major, C. Martin, T. McGuckin, J. McNabb, R.A. Miskiman, J.A. Mueller, B.B. Niczyporuk, J. O'meara, L.M. Qin, B.A. Raue, J. Robb, F. Roudot, R.A. Schumacher, D.J. Tedeschi, R.A. Thompson, D. Tilles, W. Tuzel, K. VanSyoc, M.F. Vinyard, L.B. Weinstein, G.R. Wilkin, A. Yegneswaran, J. Yun, Nucl. Inst. And Meth. **A449**, 81 (2000).
61. "The Region One Drift Chamber for the CLAS Spectrometer", D.S. Carman, S.A. Dytman, R. Magahiz, M.D. Mestayer, R. Miskiman, J.A. Mueller, R.A. Schumacher, D.J. Tedeschi, and R.A. Thompson, Nucl. Inst. And Meth. **A419**, 315 (1998).

62. “Dependence of  $pp \rightarrow pp \pi^0$  Near Threshold on the Spin of the colliding Nucleons”, H.O. Meyer, J.T. Balewski, M. Dzemidzic, J. Doskow, R.E. Pollock, B. v.Przewoski, T. Rinckel, F. Sperisen, P. Thorngren-Engblom, M. Wolanski, W. Haerberli, B. Lorentz, F. Rathmann, B. Schwartz, T. Wise, W.W. Daehnick, R.W. Flammang, Swapan K. Saha, D.J. Tedeschi, P.V. Pancella, Phys. Rev. Lett. **81**, 3096-3099 (1998).
63. “Analyzing Powers and Cross Sections of  $pp\text{-}pn\pi^+$  near Threshold”, W.W. Daehnick, W.K. Brooks, S.A. Dytman, R.W. Flammang, C.F. Foster, J.G. Hardie, W.W. Jacobs, P.V. Pancella, T. Rinckel, E.J. Stephenson, D.J. Tedeschi, R.A. Thompson, T. Vrana, Phys. Rev. **C58**, 916 (1998).
64. “Analyzing Powers in  $pp\text{-}pn\pi^+$  and Determination of Pion S and P Wave Amplitudes near Threshold”, W.W. Daehnick, S.A. Dytman, D.J. Tedeschi, R.A. Thompson, T. Vrana, C.F. Foster, J.G. Hardie, W.W. Jacobs, T. Rinckel, E.J. Stephenson, P.V. Pancella, W.K. Brooks, Phys. Lett. **B423**, 213 (1998).
65. “Measurement of  $\gamma d\text{-}pn\pi^0$  at Large Nucleon Momenta”, G.S. Adams, H. Baghaei, A. Caracappa, W. B. Clayton, A. D’Angelo, S. Hoblit, M. Khandaker, O. C. Kistner, T. Kobayashi, R. Lindgren, L. Miceli, C. Ruth, A. M. Sandorfi, C. Schaerf, R.M. Sealock, L.C. Smith, P. Stoler, D.J. Tedeschi, C.E. Thorn, S.T. Thornton, K. Vaziri, C.S. Whisnant, E.J. Winhold, Phys. Rev. **C51**, 17 (1995).
66. “Exclusive Photodisintegration of  $^3\text{He}$  with Polarized Photons”, D.J. Tedeschi, G.S. Adams, G. Audit, H. Baghaei, A. Caracappa, W. B. Clayton, A. D’Angelo, M.-A. Duval, G. Giordano, S. Hoblit, O. C. Kistner, J. M. Laget, R. Lindgren, G. Matone, L. Miceli, W.K. Mize, M.A. Moinester, C. Ruth, A. M. Sandorfi, C. Schaerf, R.M. Sealock, L.C. Smith, P. Stoler, P.K. Teng, C.E. Thorn, S.T. Thornton, K. Vaziri, C.S. Whisnant, E.J. Winhold, Phys. Rev. Lett. **73**, 408 (1994).
67. “First Measurement of the Reaction  $^3\text{He}(\gamma,p)X$  with Polarized Photons”, C. Ruth, G.S. Adams, H. Baghaei, A. Caracappa, W. B. Clayton, A. D’Angelo, M.-A. Duval, G. Giordano, S. Hoblit, O. C. Kistner, J. M. Laget, R. Lindgren, G. Matone, L. Miceli, W.K. Mize, M.A. Moinester, A. M. Sandorfi, C. Schaerf, R.M. Sealock, L.C. Smith, P. Stoler, D.J. Tedeschi, P.K. Teng, C.E. Thorn, S.T. Thornton, K. Vaziri, C.S. Whisnant, E.J. Winhold, Phys. Rev. Lett. **72**, 617 (1994).
68. “Pion Absorption in  $^4\text{He}$  above the delta resonance”, L.C. Smith, R.C. Minehart, O.K. Baker, D.B. Day, K.L. Giovanetti, R. Lourie, R.M. Marshall, B. Milbrath, B.G. Ritchie, R.M. Sealock, D. Tedeschi, S.T. Thornton, Phys. Rev. **C48**, R485 (1993).

#### **ARTICLES SUBMITTED TO REFEREED JOURNALS**

1. “Experimental Study of exclusive  $2\text{H}(e,e'p)n$  Reaction Mechanism at High  $Q^2$ ”, K.Sh. Egiyan *et al.* (The CLAS Collaboration), Submitted to Phys. Rev. Lett. January 2007. (nucl-ex/0701013)

2. "Observation of a backward peak in the  $\gamma d \rightarrow \pi^0 d$  cross section near the eta threshold", Y. Ilieva *et al.* (The CLAS Collaboration), Submitted to Phys. Rev. Lett. March 2007. (nucl-ex/0703006)
3. "First Measurement of Coherent Phi Meson Photoproduction on Deuteron at Low Energies", T. Mibe *et al.* (The CLAS Collaboration), Submitted to Phys. Rev. Lett. March 2007. (nucl-ex/0703013)
4. " $\pi^0$  photoproduction on the proton for photon energies from 0.675 to 2.875 GeV", M. Dugger *et al.* (The CLAS Collaboration), Submitted to Phys. Rev. C. May 2007. (arXiv:0705.0816v1)
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