CURRICULUM VITAE

Personal Data

Name: **Dipangkar Dutta**

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Employment

Professor	2016 - present
Associate Professor	2012 - 2016
Assistant Professor	2006 - 2012
Mississippi State University, Mississippi State, Mississippi	
Assistant Research Professor	2003 - 2006
Duke University, Medium Energy Group, Durham, North Carolina	
Postdoctoral to Senior Postdoctoral Research Associate	1999 - 2002
Massachusetts Institute of Technology, Medium Energy Group, Cambridge, Massachusetts.	

Education

Northwestern University, Evanston, IL (1992 - 1998)
Ph.D. degree in Physics, June 1999
Thesis title: *"The $(e, e'p)$ Reaction Mechanism in the Quasi-Elastic Region."*
Thesis advisers: Dr. Don Geesaman and Prof. Ralph Segel

Indian Institute of Technology, Bombay, India (1988 - 1992)
B.Tech. degree in Engineering Physics, May 1992.
Senior thesis: *"Heavy ion scattering cross-sections using a novel region-wise analysis technique."*
Thesis adviser: Prof. Y. K. Gambhir

Societies and Honors

American Physical Society

Henry Family Dean's Eminent Scholar (2010)

State Pride award (2010)

JSA Sabbatical Support Award (2010)

Argonne National Lab, Graduate Fellowship. (1994-1998)

Student Awards

Edward Leggett - Honors Research Fellowship (Summer 2008)

Prajwal Mohanmurthy - Honors Research Fellowship (Summer 2010, 2011)

Prajwal Mohanmurthy - Clinton E. Wallace Student Excellence Undergraduate Research Award (2011)

Prajwal Mohanmurthy - Jefferson Science Associates, Undergraduate Research Award (2012)

Prajwal Mohanmurthy - SPS Herbert Levy Memorial Scholarship (2012)

John Madsen - Honors Research Fellowship (Summer 2013, 2014)

John Madsen - NEMDJ Undergraduate Research Award (2013)

John Madsen - Goldwater Scholarship, honorable mention (2015)

Grants

U.S. Department of Energy, "Electron detector for the Jefferson Lab Hall-C Compton Polarimeter," PI, 2007 - 2010 ($341,000).

U.S. Department of Energy, "Precision measurements at medium energy." PI, 2010 - 2013 ($ 833,000), 2013 - 2016 ($ 836,000), 2016 - 2019 ($1,218,000).

National Science Foundation, "MRI Consortium: Development of a Kaon Detection System for Hall C at 12 GeV JLab," co-PI, 2010-2012 ($ 469,533).

Oak Ridge Associated Universities, " A new search for the neutron electric dipole moment," PI, 2012-2015 ($ 75,000).

National Science Foundation, "MRI: Development of a Windowless Hydrogen Gas Flow Target for a High Precision Measurement of the Proton Charge Radius," co-PI, 2012-2014 ($ 410,359).

Brookhaven National Lab, "Development of a Spin-Light Polarimeter for the EIC," PI, 2012 ($15,000), 2013 ($10,000), 2014 ($10,000).

Jefferson Lab, "Bridge faculty position for Dr. Lamiaa El-Fassi," PI, 2014-2019 ($ 240,000).

Students and Post-Docs Mentored

Post Doctoral Researcher

Krishna Adhikari (2014 - present)

Mitra Shabestari (2011 - 2014)

Graduate Students

Abishek Karki (PhD expected 2021)

Deepak Bhetuwal (PhD expected 2020)

Edward Leggett (MS 2011, PhD expected 2017)

Yipeng Jiang (MS 2015)

Amrendra Narayan (MS 2008, PhD 2015)

Nuruzamman (MS 2010)

Li Ye (MS 2014, PhD expected 2017)

Undergrads

Ben Emmich (2016 -)

Nic Ezzell (2016 -)

John Madsen (2012 - 2016)

Mikhail Gaerlan (2013 - 2016)

Amy Ray (2012 - 2013)

Adam Powers (2013)

Johnathan Sandlin (2013)

Nishi Sunthwal (2011 - 2012)

Robert Jacobson (2010 - 2011)

Prajwal Mohanmurthy (2009 - 2013)

Edward Leggett (2008 - 2009)

Charles Vaughn (2007 - 2008)

Daniel Brown (2006 - 2007)

High School Student

Mikhail Gaerlan (MS Math and Science School, 2011-2012)

Zachary Short (MS Math and Science School, 2013)

Nick Ezzell (MS Math and Science School, 2014)

Courses Taught

Guesstimation, PH1001 (first year seminar course, Fall 2009)

Physics for Scientists and Engineers-I, PH2213 (introductory physics, Spring 2007, Spring 2008, & Fall 2009)
Text: University Physics by Young and Freedman, Mastering Physics and CPS clickers.

Physics for Scientists and Engineers-III, PH2233 (introductory physics, Spring 2009, & Spring 2011, & Sprin 2013)
Text: University Physics by Young and Freedman, Mastering Physics and CPS clickers.

Modern Physics, PH3613 (upper level course for physics majors, Fall 2006).
Text: Modern Physics by Tipler and Llewellyn.

Electronics for Scientists, PH4113/PH6113 (upper level course for physics majors, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2016)
Text: Principles of Electronic Instrumentation, by Diefenderfer and Holton.

Introduction to Nuclear and Particle Physics, PH4613/PH6613 (upper level course for physics majors, Spring 2008, & Spring 2012)
Text: Nuclear and Particle Physics an Introduction by B. R. Martin.

Nuclear Physics, PH8613 (graduate level nuclear physics, Fall 2007, & Fall 2010)
Text: Nuclear Physics, by Samuel S. M. Wong.

Introduction to Quantum Mechanics, PH4713/PH6713 (upper level course for physics majors, Fall 2013, Fall 2014, Fall 2015, Spring 2016)
Text: Introduction to Quantum Mechanics, by David J. Griffiths (2013-2014), Quantum Mechanics: A Paradigms Approach, by D. McIntyre (2015).

Applications of Quantum Mechanics, PH4723/PH6723 (upper level course for physics majors, Spring 2014)
Text: Introduction to Quantum Mechanics, by David J. Griffiths.

Synergistic Activities

TUNL Seminar Chair, 2003 - 2004

Jefferson Lab, Hall-C Steering Committee, 2009 - 2010

Jefferson Lab, JSA Travel Grant Committee, 2009 - present

Jefferson Lab, Hall-A Collaboration Committee, 2010 - 2012

Jefferson Lab, User Group Board of Directors, 2013 - 2015

Developed a freshman seminar course named "Guesstimation" under the MSU first year experience program, which is the first such course offered by the department of Physics, 2009.

Reviewer for Physics Letters B.

Grant Proposal Reviewer for US Department of Energy.

Grant Proposal Reviewer for National Science Foundation.

Reviewer for Research Foundation Flanders (Belgium) (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO

Reviewer for Canada Foundation for Innovation (Canada)

Presentations and Publications

Presentations Summary

38 invited presentations

23 colloquium and seminars

11 Others

Publications Summary

92 peer reviewed journal articles, with an average of **51** citations per article.

16 articles with over 100 citations.

16 articles with 50-99 citations.

h number of **40**.

1 Physical Review X (impact factor 8.7, immediacy 3.146), **40** Physical Review Letters (impact factor 7.621, immediacy 1.836), **34** Physical Review C (6 of these are Rapid Communications) (impact factor 3.416, immediacy index 0.811).

34 Conference proceeding and other publications.

Presentations

Invited Talks

"A Vortex Electron Source for Nuclear Physics", 22nd International Spin Symposium, University of Illinois, Urbana-Champaign, IL, Sept 26-30, 2016.

"Straight outta Compton: Lorentz invariance tests with Compton scattering", Q-Weak Collaboration Meeting, Jefferson Lab, Newport News, VA, May 14, 2016.

"TDIS Experiment: probing the mesonic content of nucleons", Next generation nuclear physics with JLab12 and EIC, Miami, FL, Feb 10, 2016

"Color Transparency", Hall C Users Meeting, Jefferson Lab, Newport News, VA, Jan 21, 2016.

"The Qweak Experiment: A direct measurement of the weak charge of the proton", EINN 2015, Phapos, Cyprus, Nov 1, 2015.

"Hadron propagation through the nuclear medium", EMMI Worksop on cold dense nuclear matter, Darmstadt, Germany, Oct 13-17, 2015.

"Tagged DIS Experiment", BoNuS Fest, Jefferson Lab, Newport News, VA, Aug 21, 2015.

"Tagged DIS Experiments: Exploring Flavor Dependence of the EMC effect and the Meson Cloud of the Nucleon", New Directions in Nuclear Deep Inelastic Scattering, ECT*, Trento, Italy, Jun 8-12, 2015.

"Precision Electron Beam Polarimetry," 21st International Spin Physics Symposium, SPIN 2014, Beijing (China) October 20 - October 24, 2014.

"Spin-light polarimetry at the EIC," EIC 2014, Jefferson Lab, Newport News, VA, Mar 17-21, 2014.

"The Proton Charge Radius: How large is it and why do we care," Pac-Spin 2013, Jinan, China, Oct 28 -31, 2013.

"Color Transparency at 6 and 12 GeV," Jefferson Lab, User Group Meeting, Newport News, VA, May 29 -31, 2013.

"High Energy Hadron Propagation in Nuclear Medium," Hadron physics with high-momentum hadron beams at J-PARC, KEK, Tsukuba, Japan, Jan 15 -18, 2013.

"Flavor Dependence of the EMC Effect," Jefferson Lab, Hall-C Summer Workshop, Newport News, VA, June 22 - 24, 2012.

"Propagation of Hadrons Through the Nuclear Medium," Hadrons in the Nuclear Medium, ECT*, Trento, Italy, May 14 -18, 2012.

"SHMS Collimator and Sieve Slit Design," Jefferson Lab Hall-C Users Meet ing, Newport News, VA, Jan 13-14, 2012

"Experimental Overview of the Search for Color Transparency in Nuclei," Partons in Nucleons and Nuclei 2011, Marrakech, Morocco, Sept 25-30, 2011.

"A New High Precision Experiment to Measure the Charge Radius of the Proton," Partons in Nucleons and Nuclei 2011, Marrakech, Morocco, Sept 25-30, 2011.

"Hadron Propagation in the Nuclear Medium," Jefferson Lab, Hall-C Summer Workshop, Newport News, VA, Aug 19 - 20, 2011.

"Search for QCD in Nuclei: A JLab Perspective," Particles and Nuclei International Conference 2011, Cambridge, MA, Jul 25-29, 2011.

"Probing Charge Symmetry Violation using SIDIS," Jefferson Lab, Hall-C Summer Workshop, Newport News, VA, Aug 27 - 28, 2010.

"Feasibility of a Spin-Light Polarimeter at an EIC," EIC Meeting at The Catholic University of America, Washington D.C., July 29 - 31, 2010.

"Measuring the Flavor Dependence of the EMC Effect," Workshop on Nuclear Chromo-Dynamic Studies with a Future Electron Ion Collider, Argonne National Lab, Argonne, IL, April 7 - 9, 2010.

"Precision Measurements with Semi-inclusive Deep Inelastic Scattering," INT Workshop on the Jefferson Lab Upgrade to 12 GeV, Seattle, WA, Oct 26 - 30, 2009.

"Precision Measurements with Semi-inclusive Deep Inelastic Scattering," Workshop on Hadron Physics in China and Opportunities at the 12 GeV JLab, Lanzhou University, Lanzhou, China, July 31-Aug 1, 2009.

"QCD in Nuclei at 12 GeV," Jefferson Lab, Hall-C Summer Workshop, Newport News, VA, Aug 4 - 5, 2008.

"Pion Transparency," International Workshop Dense and Cold Nuclear Matter and Hard Exclusive Processes, Gent, Belgium, Aug 20 -24, 2007.

"Chasing Color Transparency with Pions," Gordon Research Conference on Photonuclear Reactions, Tilton, NH, Jul 31 - Aug 4, 2006.

"The Search for Color Transparency- A Color Coherence Effect in Nuclear Physics," The Joint Meeting of the Division of Nuclear Physics of APS and JPS, Maui Hawaii, September 18-23, 2005.

"The Search for QCD in Nuclei," Canadian Association of Physics, Congress, Vancouver, Canada, June 05, 2005.

"Recent results from detailed studies of the $(e, e'p)$ reaction mechanism," Workshop on Electron-Nucleus Scattering VIII, Isola d' Elba, Italy, June 21 -25, 2004.

"Color Transparency - the Next Seven Years," Jefferson Lab- the next seven years, User' workshop and annual meeting, Newport News, VA, 17 June, 2004.

" Review of the search for color transparency," International Workshop on Probing Nucleons and Nuclei via the $(e, e'p)$ Reaction, Granoble, France, 14 -17 October 2003.

"Hadron in the Nuclear Medium," Guest Lecturer, 2003 Hampton University Graduate School (HUGS), Newport News, VA, 05 June 2003.

"Search for Color Transparency at Jefferson Lab," Perspectives in Hadronic Physics, Trieste, Italy, 14 May 2003.

" Hadron Propagation Through Nuclear Matter," NUINT-02, Irvine, CA, Dec 2002.

"Precision Measurements with Polarized $^3\vec{H}e$," Advanced Study Institute: Symmetries And Spin, Prague, Czech Republic, July 15 - 28, 2001.

"Precision Measurements with Polarized $^3\vec{H}e$," Mini-Symposium: Nuclear Medium Effects in Helium, at the APS, Division of Nuclear Physics meeting, Washington D.C., April 28 - May 1, 2001.

"Energy Dependence of Proton Propagation Through Nuclei Measured with (e,e′p) Reactions", CEBAF Users Group Meeting, June 1995.

Seminars and Colloquium

"Straight outta Compton: Lorentz invariance tests with Compton scattering", Colloquium, Mississippi State University, Mississippi State, MS, Apr 25, 2016.

"The Proton: How Large Is It, And Why Do We Care?" Physics Colloquium, M ississippi State University, Mississippi State, MS, Mar 5, 2012.

"Teaching an Old Dog New Tricks: Precision Measurements with Semi-Inclusive Deep Inelastic Scattering," Colloquium, Mississippi State University, Mississippi State, MS, February 25, 2009.

"The Q-Weak Experiment: A TeV Scale Precision Test of the Standard Model with Parity Violating Electron Scattering, or, Who Needs the LHC," Free Meson Seminar, Tata Institute of Fundamental Research, Mumbai, India, December 23, 2008.

"Through the Looking Glass: Measuring the Weak Charge of the Proton," Colloquium, University of Alabama, Tuscaloosa, AL, April 9, 2008.

"Through the Looking Glass: Measuring the Weak Charge of the Proton," Colloquium, Mississippi State University, Mississippi State , MS, February, 20 2008.

"Search for a Permanent Electric Dipole Moment of the Neutron," Seminar, Northwestern University, Evanston, IL, April 10, 2007.

" The Search for Color Transparency: Looking for Quarks in the Nucleus," Colloquium, Mississippi State University, Mississippi State, MS, October 11, 2006.

"Search for a Permanent Electric Dipole Moment of the Neutron," Nuclear Physics Seminar, University of Virginia, Charlottesville, VA, April 04, 2006.

"Hyper-polarized Noble Gases: A Physicistś Swiss Army Knife," Colloquium, Mississippi State University, MS, 13 February, 2006.

"The Hunt for Quarks in Nuclei: Mapping the hadron-Parton Transition," Colloquium, NC A and T University, Greensboro, NC, 24 March, 2005.

"The Hunt for Quarks in Nuclei: Mapping the hadron-Parton Transition," Seminar, U.S. Naval Academy, Annapolis, 11 March, 2005.

"Experimental search for Color Transparency," TUNL Seminar, Duke University, 06 March 2003.

"From Quarks to Nuclei: Can Exclusive Processes Show Us the Way," Colloquium, University of Kansas, 15 April 2002.

"From Quarks to Nuclei: Can Exclusive Processes Show Us the Way," Physics Seminar, University of New Hampshire, 06 March 2002.

"Pion Photoproduction at High Energies," Seminar, Argonne National Lab, Argonne, IL, Jan 28, 2002.

"The Transverse Asymmetry $A_{T'}$ from Quasielastic $^3\vec{H}e(\vec{e}, e')$ Process and the Neutron Magnetic Form Factor", Physics Seminar, JLab, Newport News, VA, 28 April, 2000.

"Precise Measurement of the Transverse Asymmetry $A_{T'}$ for Inclusive Quasielastic Electron Scattering off Polarized ^{3}He", Summer School on Lepton Scattering, Erice, Sicily, Sept 1999.

"The $(e, e'p)$ reaction mechanism in the Quasi-Elastic region", Nuclear Physics Seminar, University of Maryland, College Park, 29 Mar, 1999.

"The $(e, e'p)$ reaction mechanism in the Quasi-Elastic region", Nuclear Physics Seminar, Massachusetts Institute of Technology, Cambridge, MA, 12 Oct, 1998.

"Proton Propagation and Quasi Elastic Reaction Mechanism Studied with (e,e′p) Reactions", Nuclear Physics Seminar, University of Illinois at Urbana Champaign, IL, Nov 12, 1997.

"Proton Propagation and Quasi Elastic Reaction Mechanism Studied with (e,e′p) Reactions", Ninth Annual NSF/DOE Summer School in Nuclear Physics at Yale University, New Haven, CT, Aug 7 - 15 1997.

"Quasi Elastic (e,e′p) Reactions at Large Momentum Transfer", NATO Summer School on Correlations and Clustering Phenomena in Subatomic Physics, Dronten, The Netherlands, Aug 1996.

Others

"A New Proton Charge Radius Experiment at JLab," International Nuclear Physics Conference, Adelaide, Australia, Sept 8-15, 2016.

"The PRad experiment at JLab," APS - DNP Meeting, Newport News, VA, Oct 21-15, 2013.

"Measuring the axial form factor of ^{3}He using weak capture of polarized electrons," PEB Workshop, Cambridge, MA, march 14-16, 2013.

"Performance and Future Prospects of CVD Diamond Micro-strip Detectors,"CIPANP 2012, St. Petersburg, FL, May 28 - June 3, 2012.

"The feasibility of spin light polarimeter at 12 GeV JLab," DNP Meeting, Santa Fe, NM, November 2 - 6, 2010.

"The feasibility of spin light polarimeter at 12 GeV JLab," 19th International Spin Physics Symposium, SPIN 2010, Forschungszentrum, Julich (Germany) September 27 - October 2, 2010.

"Through the Looking Glass: The QWeak Experiment and the Search for Physics Beyond the Standard Model," Mississippi Academy of Sciences Meeting, Mississippi State, MS, Feb 23, 2007.

"Nuclear transparency with the γ n $\rightarrow \pi^-$ p process in ^{4}He," 17th International IUPAP Conference on Few-Body Problems in Physics, Durham, NC, 07 June 2003.

"The Transverse Asymmetry $A_{T'}$ from Quasielastic $^3\vec{H}e(\vec{e}, e')$ Process and the Neutron Magnetic Form Factor", Conference on the Intersection of Nuclear and Particle Physics, Quebec City, Quebec, 27 May 2000.

"Proton Propagation Through Nuclei and The Quasi Elastic Reaction Mechanism Studied with (e,e$'$p) Reactions", Conference on the Intersection of Nuclear and Particle Physics, Big Sky, Montana, 27 May-2 June 1997.

"Forward Backward Comparison of (e,e$'$p) data at Q^2 of 0.6 GeV^2 and 1.8 GeV^2 ", D. Dutta for the Jefferson Lab E91-13 Collaboration, Bull. Am. Phys. Soc. 42, 1044 (1997), APS meeting, Washington DC, March 1997.

Publications

Peer Reviewed Journals

"Precision Electron-Beam Polarimetry at 1 GeV Using Diamond Microstrip Detectors,"A. Narayan, D. Jones, J.C. Cornejo, M.M. Dalton, W. Deconinck, D. Dutta, D. Gaskell, J.W. Martin, K.D. Paschke, V. Tvaskis, A. Asaturyan, J. Benesch, G. Cates, B.S. Cavness, L.A. Dillon-Townes, G. Hays, E. Ihloff, R. Jones, P.M. King, S. Kowalski, L. Kurchaninov, L. Lee, A. McCreary, M. McDonald, A. Micherdzinska, A. Mkrtchyan, H. Mkrtchyan, V. Nelyubin, S. Page, W.D. Ramsay, P. Solvignon, D. Storey, A. Tobias, E. Urban, C. Vidal, B. Waidyawansa, P. Wang, and S. Zhamkotchyan, Phys. Rev. X **6**, 011013 (2016).

"Moments of the neutron g_2 structure function at intermediate Q^2, P. Solvignon, N. Liyaage, J.-P.Chen, Seonho Choi, K. Slifer, K. Aniol, T. Averett, W. Boeglin, A. Camsonne, G.D. Cates, C.C. Chang, E. Chudakov, B. Craver, F. Cusanno, A. Deur, D. Dutta, R. Ent, R. Feuerbach, S. Frullani, H. Gao, F. Garibaldi, R. Gilman, C. Glashausser, V. Gorbenko, O. Hansen, D.W. Higinbotham, H. Ibrahim, X. Jiang, M. Jones, A. Kelleher, J. Kelly, C. Keppel, W. Kim, W. Korsch, K. Kramer, G. Kumbartzki, J.J. LeRose, R. Lindgren, B. Ma, D.J. Margazioti, P. Markowitz, K. McCormick, Z.-E. Meziani, R. Michaels, B. Moffit, P. Monaghan, C. Munoz Camacho, K. Paschke, B. Reitz, A. Saha, R. Shneor, J. Singh, V. Sulkosky, A. Tobias, G.M. Urciuoli, K. Wang, K. Wijesooriya, B. Wojtsekhowski, S. Woo, J.-C. Yang, X. Zheng, L. Zhu, Phys. Rev. **C92**, 015208 (2015).

"Double Spin Asymmetries of Inclusive Hadron Electroproductions from a Transversely Polarized ^{3}He Target, Y.X. Zhao, K. Allada, K. Aniol, J.R.M. Annand, T. Averett, F. Benmokhtar, W. Bertozzi, P.C. Bradshaw, P. Bosted, A. Camsonne, M. Canan, G.D. Cates, C. Chen, J.-P. Chen, W. Chen, K. Chirapatpimol, E. Chudakov, E. Cisbani, J.C. Cornejo, F. Cusanno, M. Dalton, W. Deconinck, C.W.de Jager, R. De Leo, X. Deng, A. Deur, H. Ding, P. A. M. Dolph, C. Dutta, D. Dutta, L. El Fassi, S. Frullani, H. Gao, F. Garibaldi, D. Gaskell, S. Gilad, R. Gilman, O. Glamazdin, S. Golge, L. Guo, D. Hamilton, O. Hansen, D.W. Higinbotham, T. Holmstrom, J. Huang, M. Huang, H. F Ibrahim, M. Iodice, X. Jiang, G. Jin, M.K. Jones, J. Katich, A. Kelleher, W. Kim, A. Kolarkar, W. Korsch, J.J. LeRose, X. Li, Y. Li, R. Lindgren, N. Liyanage, E. Long, H.-J. Lu, D.J. Margaziotis, P. Markowitz, S. Marrone, D. McNulty, Z.-E. Meziani, R. Michaels, B. Moffit, C. Muoz Camacho, S. Nanda, A. Narayan, V. Nelyubin, B. Norum, Y. Oh, M. Osipenko, D. Parno, J.-C. Peng, S. K. Phillips, M. Posik, A. J. R. Puckett, X. Qian, Y. Qiang, A. Rakhman, R. Ransome, S. Riordan, A. Saha, B. Sawatzky, E. Schulte, A. Shahinyan, M. H. Shabestari, S. irca, S. Stepanyan, R. Subedi, V. Sulkosky, L.-G. Tang, W. A. Tobias, G. M. Urciuoli, I. Vilardi, K. Wang, B. Wojtsekhowski, Y. Wang, X. Yan, H. Yao, Y. Ye, Z. Ye, L. Yuan, X. Zhan, Y. Zhang, Y.-W. Zhang, B. Zhao, X. Zheng, L. Zhu, X. Zhu, X. Zong, Phys. Rev. **C92**, 015207 (2015).

"The Q_{weak} Experimental Apparatus,"T. Allison, M. Anderson, D. Androic, D.S. Armstrong, A. Asaturyan, T.D. Averett, R. Averill, J. Balewski, J. Beaufait, R.S. Beminiwattha, J. Benesch, F. Benmokhtar, J. Bessuille, J. Birchall, E. Bonnell, J. Bowman, P. Brindza, D.B. Brown, R.D. Carlini, G.D. Cates, B. Cavness, G. Clark, J.C. Cornejo, S. Covrig Dusa, M.M. Dalton, C.A. Davis, D.C. Dean, W. Deconinck, J. Diefenbach, K. Dow, J.F. Dowd, J.A. Dunne, D. Dutta, W.S. Duvall, J.R. Echols, M. Elaasar, W.R. Falk, K.D. Finelli, J.M. Finn, D. Gaskell, M.T.W. Gericke, J. Grames, V.M. Gray, K. Grimm, F. Guo, J. Hansknecht, D.J. Harrison, E. Henderson, J.R. Hoskins, E. Ihloff, K. Johnston, D. Jones, M. Jones, R. Jones, M. Kargiantoulakis, J. Kelsey, N. Khan, P.M. King, E. Korkmaz, S. Kowalski, A. Kubera, J. Leacock, J.P. Leckey, A.R. Lee, J.H. Lee, L. Lee, Y. Liang, S. MacEwan, D. Mack, J.A. Magee, R. Mahurin, J. Mammei, J.W. Martin, A. McCreary, M.H. McDonald, M.J. McHugh, P. Medeiros, D. Meekins, J. Mei, R. Michaels, A. Micherdzinska, A. Mkrtchyan, H. Mkrtchyan, N. Morgan, J. Musson, K.E. Mesick, A. Narayan, L.Z. Ndukum, V. Nelyubin, Nuruzzaman, W.T.H. van Oers, A.K. Opper, S.A. Page, J. Pan, K.D. Paschke, S.K. Phillips, M.L. Pitt, M. Poelker, J.F. Rajotte, W.D. Ramsay, W.R. Roberts, J. Roche, P.W. Rose, B. Sawatzky, T. Seva, M.H. Shabestari, R. Silwal, N. Simicevic, G.R. Smith, S. Sobczynski, P. Solvignon, D.T. Spayde, B. Stokes, D.W. Storey, A. Subedi, R. Subedi, R. Suleiman, V. Tadevosyan, W.A. Tobias, V. Tvaskis, E. Urban, B. Waidyawansa, P. Wang, S.P. Wells, S.A. Wood, S. Yang, S. Zhamkochyan, R.B. Zielinski, Nucl. Instr. Meth. **A781**, 105 (2015).

"Single spin asymmetries in charged kaon production from semi-inclusive deep inelastic scattering on a transversely polarized He3 target," Y. X. Zhao, Y. Wang, K. Allada, K. Aniol, J. R. M. Annand, T. Averett, F. Benmokhtar, W. Bertozzi, P. C. Bradshaw, P. Bosted, A. Camsonne, M. Canan, G. D. Cates, C. Chen, J.-P. Chen, W. Chen, K. Chirapatpimol, E. Chudakov, E. Cisbani, J. C. Cornejo, F. Cusanno, M. M. Dalton, W. Deconinck, C. W. de Jager, R. De Leo, X. Deng, A. Deur, H. Ding, P. A. M. Dolph, C. Dutta, D. Dutta, L. El Fassi, S. Frullani, H. Gao, F. Garibaldi, D. Gaskel, S. Gilad, R. Gilman, O. Glamazdin, S. Golge, L. Guo, D. Hamilton, O. Hansen, D. W. Higinbotham, T. Holmstrom, J. Huang, M. Huang, H. F. Ibrahim, M. Iodice, X. Jiang, G. Jin, M. K. Jones, J. Katich, A. Kelleher, W. Kim, A. Kolarkar, W. Korsch, J. J. LeRose, X. Li, Y. Li, R. Lindgren, N. Liyanage, E. Long, H.-J. Lu, D. J. Margaziotis, P. Markowitz, S. Marrone, D. McNulty, Z.-E. Meziani, R. Michaels, B. Moffit, C. Muoz Camacho, S. Nanda, A. Narayan, V. Nelyubin, B. Norum, Y. Oh, M. Osipenko, D. Parno, J.-C. Peng, S. K. Phillips, M. Posik, A. J. R. Puckett, X. Qian, Y. Qiang, A. Rakhman, R. Ransome, S. Riordan, A. Saha, B. Sawatzky, E. Schulte, A. Shahinyan, M. H. Shabestari, S. irca, S. Stepanyan, R. Subedi, V. Sulkosky, L.-G. Tang, A. Tobias, G. M. Urciuoli, I. Vilardi, K. Wang, B. Wojtsekhowski, X. Yan, H. Yao, Y. Ye, Z. Ye, L. Yuan, X. Zhan, Y. Zhang, Y.-W. Zhang, B. Zhao, X. Zheng, L. Zhu, X. Zhu, and X. Zong, Phys. Rev **C90**, 055201 (2014).

"Measurement of pretzelosity asymmetry of charged pion production in semi-

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