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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.”*

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.”*

PROFESSIONAL EXPERIENCE

2006 - Assistant Professor, Department of Physics, Mississippi State University
2003 - 2006 Assistant Research Professor, Department of Physics, Duke University
1999 - 2002 Postdoctoral Research Associate to Senior Postdoctoral Research Associate,
Laboratory of Nuclear Science, Massachusetts Institute of Technology

AWARDS

1994-1998 Argonne National Lab, Graduate Fellowship.

MEMBERSHIPS

American Physics Society

PUBLICATIONS Peer Reviewed Journals

- “Laser-driven Nuclear-polarized Hydrogen Internal Gas Target,” J. Seely, B. Clasie, C. Crawford, W. Xu, D. Dutta and H. Gao, Phys. Rev. A. **73**, 062714 (2006).
- “Laser-driven Target of High-density Nuclear-spin Polarized Hydrogen Gas,” B. Clasie, C. Crawford, J. Seely, W. Xu, D. Dutta, H. Gao, Phys. Rev. A. **73**, 020703(R) (2006).
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- “Precision Rosenbluth Measurement of the Proton Elastic Form Factors,” I. A. Qattan, J. Arrington, R. E. Segel, X. Zheng, K. Aniol, O. K. Baker, R. Beams, E. J. Brash, J. Calarco, A. Camsonne, J.-P. Chen, M. E. Christy, D. Dutta, R. Ent, S. Frullani, D. Gaskell, O. Gayou, R. Gilman, C. Glashausser, K. Hafidi, J.-O. Hansen, D. W. Higinbotham, W. Hinton, R. J. Holt, G. M. Huber, H. Ibrahim, L. Jisonna, M. K. Jones, C. E. Keppel, E. Kinney, G. J. Kumbartzki, A. Lung, D. J. Margaziotis, K. McCormick, D. Meekins, R. Michaels, P. Moussiagt, L. Pentchev, C. Perdrisat, V. Panjabi, R. Ransome, J. Reinhold, B. Reitz, A. Saha, A. Sarty, E. C. Schulte, K. Slifer, P. Solvignon, V. Sulkosky, K. Wijesooriya, B. Zeidman, Phys. Rev. Lett. **94**, 142301 (2005).
- “Generalized Counting Rule and Oscillatory Scaling,” D. Dutta and H. Gao, Phys. Rev. C **71**, 032201(R), 2005.
- “Cross Section Measurements of Charged Pion Photoproduction in Hydrogen and Deuterium from 1.1-GeV to 5.5-GeV,” L. Y. Zhu, J. Arrington, T. Averett, E. Beise, J. Calarco, T. Chang, J. P. Chen, E. Chudakov, M. Coman, B. Clasie, C. Crawford, S. Dieterich, F. Dohrmann, D. Dutta, K. Fissum, S. Frullani, H.

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- “Near Threshold Electroproduction of the Omega Meson at $Q^2 = 0.5 \text{ GeV}^2$,” P. Ambrozewicz, J. Mitchell, J. Dunne, P. Markowitz, C.J. Martoff, J. Reinhold, B. Zeidman, D.J. Abbott, A. Ahmidouch, C.S. Armstrong, J. Arrington, K.A. Assamagan, K. Bailey, O.K. Baker, S. Beedoe, H. Breuer, R. Carlini, J. Cha, G. Collins, C. Cothran, W.J. Cummings, S. Danagoulian, D. Day, F. Duncan, D. Dutta, T. Eden, R. Ent, L. Ewell, H.T. Fortune, H. Gao, D.F. Geesaman, P. Gueye, K.K. Gustafsson, J.O. Hansen, W. Hinton, C.E. Keppel, A. Klein, D. Koltenuk, D.J. Mack, R. Madey, D.G. Meekins, H. Mkrtchyan, R.M. Mohring, S.K. Mtingwa, G. Niculescu, I. Niculescu, T.G. O’Neill, D. Potterveld, J.W. Price, B.A. Raue, P. Roos, G. Savage, R. Sawafta, R.E. Segel, S. Stepanyan, V. Tadevosyan, L. Tang, B.P. Terburg, S. Wood, C. Yan, B. Zihlmann, *Phys. Rev. C* **70**, 035203 (2004).
- “Measurement of Electron Proton Elastic Cross-sections for $0.4 < Q^2 < 5.5 \text{ (GeV/c)}^2$,” M. E. Christy, A. Ahmidouch, C. S. Armstrong, J. Arrington, R. Asaturyan, S. Avery, O. K. Baker, D. H. Beck, H. P. Blok, C. W. Bochna, W. Boeglin, P. Bosted, M. Bouwhuis, H. Breuer, D. S. Brown, A. Bruell, R. D. Carlini, N. S. Chant, A. Cochran, L. Cole, S. Danagoulian, D. B. Day, J. Dunne, D. Dutta, R. Ent, H. C. Fenker, B. Fox, L. Gan, H. Gao, K. Garrow, D. Gaskell, A. Gasparian, D. F. Geesaman, P. L. J. Gueye, M. Harvey, R. J. Holt, X. Jiang, C. E. Keppel, E. Kinney, Y. Liang, W. Lorenzon, A. Lung, P. Markowitz, J. W. Martin, K. McIlhany, D. McKee, D. Meekins, M. A. Miller, R. G. Milner, J. H. Mitchell, H. Mkrtchyan, B. A. Mueller, A. Nathan, G. Niculescu, I. Niculescu, T. G. O’Neill, V. Papavassiliou, S. F. Pate, R. B. Piercey, D. Potterveld, R.D. Ransome, J. Reinhold, E. Rollinde, P. Roos, A.J. Sarty, R. Sawafta, E.C. Schulte, E. Segbefia, C. Smith, S. Stepanyan, S. Strauch, V. Tadevosyan, L. Tang, R. Tieulent, A. Uzzle, W. F. Vulcan, S. A. Wood, F. Xiong, L. Yuan, M. Zeier, B. Zihlmann, V. Ziskin, *Phys. Rev. C* **70**, 015206, (2004).
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- “Separation of the longitudinal and transverse cross sections in the $^1\text{H}(e,e’\text{K}^+)\Lambda$ and $^1\text{H}(e,e’\text{K}^+)\Sigma^0$ reactions,” R. M. Mohring, D. Abbott, A. Ahmidouch, Ts. A. Amatuni, P. Ambrozewicz, T. Angelescu, C. S. Armstrong, K. Assamagan, S. Avery, K. Bailey, K. Beard, S. Beedoe, E. Beise, H. Breuer, R. Carlini, J. Cha, C. C. Chang, N. Chant, E. Cisbani, G. Collins, W. Cummings, S. Danagoulian, R. De Leo, F. Duncan, J. Dunne, D. Dutta, T. Eden, R. Ent, L. Eyraud, L. Ewell, M. Finn, T. Fortune, V. Frolov, S. Frullani, C. Furget, F. Garibaldi, D. Gaskell, D. F. Geesaman, K. K. Gustafsson, J.-O. Hansen, M. Harvey, W. Hinton, E.

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- “Nuclear transparency with the $\gamma n \rightarrow \pi^- p$ process in ^4He ,” D. Dutta, F. Xiong, L. Y. Zhu, J. Arrington, T. Averett, E. Beise, J. Calarco, T. Chang, J. P. Chen, E. Chudakov, M. Coman, B. Clasie, C. Crawford, S. Dieterich, F. Dohrmann, K. Fissum, S. Frullani, H. Gao, R. Gilman, C. Glashausser, J. Gomez, K. Hafidi, J.-O. Hansen, D. W. Higinbotham, R. J. Holt, C. W. de Jager, X. Jiang, E. Kinney, K. Kramer, G. Kumbartzki, J. LeRose, N. Liyanage, D. Mack, P. Markowitz, K. McCormick, D. Meekins, Z.-E. Meziani, R. Michaels, J. Mitchell, S. Nanda, D. Potterveld, R. Ransome, P. E. Reimer, B. Reitz, A. Saha, E. C. Schulte, J. Seely, S. sirca, S. Strauch, V. Sulkosky, B. Vlahovic, L. B. Weinstein, K. Wijesooriya, C. F. Williamson, B. Wojtsekhowski, H. Xiang, W. Xu, J. Zeng, and X. Zheng, *Phys. Rev. C* **68**, 021001R (2003).
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- “Plane-wave impulse approximation extraction of the neutron magnetic form factor from quasielastic $^3\vec{H}e(\vec{e}, e')$ at $Q^2= 0.3$ to 0.6 (GeV/c^2),” W. Xu, B. Anderson, L. Auerbach, T. Everett, W. Bertozzi, T. Black, J. Calarco, L. Cardman, G. D. Cates, Z. W. Chai, J. P. Chen, S. Choi, E. Chudakov, S. Churchwell, G. S. Corrado, C. Crawford, D. Dale, A. Deur, P. Djawotho, D. Dutta, B. W. Filippone, J. M. Finn, H. Gao, R. Gilman, A. V. Glamazdin, C. Glashausser, W. Glöckle, J. Golak, J. Gomez, V. G. Gorbenko, J.-O. Hansen, F. W. Hersman, D. W. Higinbotham, R. Holmes, C. R. Howell, E. Hughes, B. Humensky, S. Incerti, C. W. de Jager, J. S. Jensen, X. Jiang, C. E. Jones, M. Jones, R. Kahl, H. Kamada, A. Kievsky, I. Kominis, W. Korsch, K. Kramer, G. Kumbartzki, M. Kuss, E. Lakuriqi, M. Lang, N. Liyanage, J. LeRose, S. Malov, D. J. Margaziotis, J. W. Martin, K. McCormick, R. D. McKeown, K. McIlhany,

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- “The Experimental Search for Color Transparency,” D. Dutta, Proc. of EEP03: International workshop on probing nucleons and nuclei via the (e,e’p) reaction, Grenoble France, E. Voutier, J.-M. Laget and D. W. Higinbotham eds., p 212 (2004).
- “Basic Instrumentation for Hall A at Jefferson Lab,” J. Alcorn *et al.*, NIM A **522**, 294 (2004).
- “Experimental Search for Color Transparency at JLab,” D. Dutta, Proc. of Perspectives in Hadronic Physics, ICTP, Trieste, Italy, 12-16 May 2003, S. Boffi, C. Ciofi degli Atti and M. M. Giannini eds., p 179 (2004).
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- “The MIT-Bates Compton Polarimeter,” W. A. Franklin *et al.*, Proc. of Workshop on Polarized Electron Sources and Polarimeters (PESP 2002), Danvers, Massachusetts, 4-6 Sep 2002, AIP Conf. Proc. 675, 1058 ,(2003).
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- “Precision Measurement of the Neutron Magnetic Form Factor from $^3\vec{H}e(\vec{e}, e')$,” D. Dutta (for the E95001 collaboration), Proc. Conf. on the Intersection of Nuclear and Particle Physics, Quebec City, Canada, 2000, Z. Parsa and W. J. Marciano eds., AIP Conference Proceedings 549, p. 562 (2000).
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- “Quasielastic $(e,e'p)$ Scattering at Large Momentum Transfer,” R. Ent, *et al.* (The Hall C collaboration), Proc. Workshop on Electron-Nucleus Scattering, Marciana Marina (Isola d’Elba, Italy), July 1-5, 1996, eds. O. Benhar and A. Fabrocini, p. 377.

Presentations

Invited Talks

”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 Colloquia

“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 Physicists' 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 ${}^3\text{He}$ ”, 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

“Nuclear transparency with the $\gamma n \rightarrow \pi^- p$ process in ${}^4\text{He}$,” 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.