

# BLAST Publications

The BLAST Collaboration

## Published Papers and Conference Proceedings

- [1] T. Akdogan, The Proton Electric to Magnetic Form Factor Ratio at Low  $Q^2$ , in: 17th International Conference on Particles and Nuclei, Vol. 842 of AIP Conf. Proc., 2006, pp. 330–332.
- [2] R. Alarcon, M. Butler (Eds.), Workshop on Electronuclear Physics with Internal Targets and the BLAST Detector, World Scientific, Singapore, Tempe, USA, 1992.
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- [5] R. Alarcon, Measurements of the Electromagnetic and Spin Structure of Nucleons and Nuclei with the Bates Large Acceptance Spectrometer Toroid, in: 16th International Conference on the Application of Accelerators in Research and Industry (CAARI 2000), Denton, Texas, 2000.
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- [14] R. Alarcon, The MIT-Bates Large Acceptance Spectrometer Toroid, Nucl. Phys. A721 (2003) 1075–1078.
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- [17] R. Alarcon, Polarisation Observables in Deuteron Electro-Disintegration, in: Y. Yan, C. Kobdaj, P. Suebka (Eds.), 3rd Asia-Pacific Conference on Few-Body Problems in Physics (APFB05), World Scientific, Nakhon Ratchasima, Thailand, 2005.
- [18] R. Alarcon, Spin Dependent Electron Scattering with the BLAST Detector, Czech. J. Phys. 55 (2005) A93–A98.
- [19] R. Alarcon, E. Geis, M. Kohl, R. Milner, V. Ziskin, The Neutron Charge Form Factor at Low  $Q^2$ , in: 17th International Conference on Particles and Nuclei, Vol. 842 of AIP Conf. Proc., 2006, pp. 315–317.
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- [21] R. Alarcon, Nucleon Form Factors and the BLAST Experiment, Eur. Phys. J. A32 (2007) 477–481.

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## Theses

- [1] C. Crawford, Precision Measurement of the Proton Electric to Magnetic Form Factor Ratio with BLAST, Ph.D. thesis, Massachusetts Institute of Technology (May 2005).
- [2] O. Filoti, Inclusive Scattering of Polarized Electrons from Polarized Protons in the  $\Delta$ -Excitation Region with BLAST, Ph.D. thesis, University of New Hampshire (Apr 2007).
- [3] E. Geis, The Electric Form Factor of the Neutron at Low Momentum Transfers as Measured at Bates Large Acceptance Spectrometer Toroid, Ph.D. thesis, Arizona State University (May 2007).
- [4] P. Karpius, Vector Polarization Observables of the Deuteron and A New Measurement of the Magnetic Dipole Form Factor  $G_M$ , Ph.D. thesis, University of New Hampshire (Dec 2005).
- [5] A. Maschinot, Analysis of Scattered Protons in Deuteron Electrodisintegration with a Polarized Electron Beam and an Internal Polarized Target, Ph.D. thesis, Massachusetts Institute of Technology (Sep 2005).
- [6] N. Meitanis, A Measurement of the Neutron Magnetic Form Factor  $G_M^n$  from Quasi-elastic  ${}^2\vec{H}(\vec{e}, e')$  and Low  $Q^2$ , Ph.D. thesis, Massachusetts Institute of Technology (Mar 2006).
- [7] A. Sindile, Proton Form Factor Ratio Measurement with BLAST, Ph.D. thesis, University of New Hampshire (May 2006).
- [8] C. Zhang, Measurement of Tensor Analyzing Powers in Elastic Electron Deuteron Scattering with BLAST, Ph.D. thesis, Massachusetts Institute of Technology (May 2006).
- [9] V. Ziskin, Measurement of the Electric Form Factor of the Neutron at Low Momentum Transfers Using a Vector Polarized Deuterium Gas Target at BLAST, Ph.D. thesis, Massachusetts Institute of Technology (Apr 2005).



## UnPublished Conference Presentations

- [1] R. Alarcon, The Electromagnetic Form Factors of the Nucleon, prepared for the Bates Symposium, Cambridge, MA (Sep 2006).
- [2] J. Calarco, Blast: A Detector for Internal Target Experiments, prepared for Electromagnetic Interactions with Nucleons and Nuclei (EINN 2005), Milos, Greece (Sep 2005).
- [3] J. Calarco, Studies of Nucleons and Light Nuclei with BLAST, prepared for the 21st Annual Hampton University Graduate Studies Program, Newport News, VA (Jun 2006).
- [4] C. Crawford, Precision Measurement of  $G_E^p/G_M^p$  with BLAST, prepared for DNP 2003 Meeting, Tucson, AZ (Oct 2003).
- [5] C. Crawford, A Precision Measurement of  $G_E^p/G_M^p$  at BLAST, prepared for Spring Meeting of the APS, Tampa, FL (Apr 2005).
- [6] C. Crawford, Nucleon Form Factors and Charge Densities from the BLAST Experiment, prepared for the DNP Fall Meeting, Newport News, VA (Oct 2007).
- [7] C. Crawford, Form Factor Program with BLAST, prepared for the Gordon Conference, Tilton, NH (Aug 2008).
- [8] C. Crawford, New Results from BLAST at MIT-Bates, prepared for the APS Meeting, St. Louis, MI (Apr 2008).
- [9] A. Degrush, Vector and Tensor Asymmetries for Quasielastic Scattering from Deuterium at BLAST, prepared for the APS Meeting, Jacksonville, FL (Apr 2007).
- [10] O. Filoti, The Cherenkov Counters for the BLAST Detector, prepared for Fall Meeting of the APS, Chicago, IL (Oct 2004).
- [11] O. Filoti, The Spin Correlation Parameters in Electron-Proton Inclusive Scattering in the Delta-Excitation Region, prepared for Spring Meeting of the APS, Tampa, FL (Apr 2005).
- [12] E. Geis, The Electric Form Factor of the Neutron at Low  $Q^2$ , prepared for the APS Meeting, Dallas, TX (Apr 2006).

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- [15] P. Karpus, Vector Polarisation Observables of the deuteron, prepared for Fall Meeting of the APS, Chicago, IL (Oct 2004).
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- [19] M. Kohl, Measurements of the Spin Structure of the Deuteron, prepared for Fall Meeting of the APS, Maui, HI (Sep 2005).
- [20] M. Kohl, Electromagnetic Studies with Polarized Deuterium, prepared for the Bates Symposium, Cambridge, MA (Sep 2006).
- [21] M. Kohl, Measurement of Tensor Analyzing Powers in Elastic Electron Deuteron Scattering with BLAST, prepared for the APS Meeting, Jacksonville, FL (Apr 2007).
- [22] M. Kohl, Deuteron structure studies from electron scattering off vector and tensor polarized deuterium with BLAST, prepared for the DNP Fall Meeting, Newport News, VA (Oct 2007).
- [23] N. Meitanis, Measurement of Inclusive Spin Dependent Electron Scattering from Polarised Deuterium at 850 MeV, prepared for Fall Meeting of the APS, Chicago, IL (Oct 2004).
- [24] A. Shinozaki, Pion Electroproduction from Deuterium at BLAST, prepared for the APS Meeting, Jacksonville, FL (Apr 2007).
- [25] A. Sindile, Proton Electric to Magnetic Form Factor Ratio at BLAST, prepared for APS April Meeting, Denver, Colorado (May 2004).

- [26] A. Sindile,  $G_E^p/G_M^p$  Measurement with BLAST, prepared for Fall Meeting of the APS, Chicago, IL (Oct 2004).
- [27] A. Sindile, Measurement of  $G_E^p/G_M^p$  at BLAST, prepared for Fall Meeting of the APS, Maui, HI (Sep 2005).
- [28] Y. Xiao, A Study of the Spin Dependence of Pion Electro-Production near the  $\Delta$ -Excitation Region, prepared for Fall Meeting of the APS, Maui, HI (Sep 2005).
- [29] Y. Xiao, Pion Electroproduction in the  $\Delta$  Excitation Region, prepared for the APS Meeting, Jacksonville, FL (Apr 2007).
- [30] C. Zhang, Measurement of the Analysing Powers,  $T_{20}$  and  $T_{21}$ , Using a Polarised Gas Target and the BLAST Detector, prepared for Fall Meeting of the APS, Chicago, IL (Oct 2004).
- [31] C. Zhang, Tensor Analysing Power in Elastic Electron Deuteron Scattering, prepared for Fall Meeting of the APS, Maui, HI (Sep 2005).

## Seminars

- [1] T. Akdogan, BLAST: What is the deuteron?, Seminar (May 2005).
- [2] T. Akdogan, Deuteron and Neutron Form Factors at Low  $Q^2$  using the BLAST Detector, Seminar (Nov 2006).
- [3] J. Calarco, BLAST: A Detector for Internal Target Experiments, Seminar (Mar 2005).
- [4] C. Crawford, Precision Measurement of  $G_E^p/G_M^p$  with BLAST, Seminar (Oct 2003).
- [5] C. Crawford, Precision Measurement of  $G_E^p/G_M^p$  with BLAST, Seminar (Sep 2003).
- [6] W. Franklin, The MIT-Bates Compton Polarimeter for Stored Polarized Electrons, Seminar (Jan 2003).
- [7] M. Kohl, The BLAST Experiment at MIT-Bates, Seminar (Jan 2006).

- [8] M. Kohl, Probing Nucleon and Deuteron Structure with the BLAST Experiment at MIT-Bates, Seminar (Mar 2006).
- [9] M. Kohl, What did BLAST Teach Us, Seminar (May 2006).
- [10] M. Kohl, Form Factor Results from BLAST, Seminar (June 2006).
- [11] M. Kohl, We had a BLAST at MIT-Bates, Seminar (Nov 2006).
- [12] M. Kohl, Probing Fundamental Physics Observables with Spin, Seminar (Jan 2007).
- [13] R. Milner, Hadronic Physics using Storage Rings, Seminar (Mar 2004).
- [14] R. Milner, Measurement of Spin-dependent Electron Scattering from Deuterium at 850 MeV with BLAST, Seminar (May 2005).
- [15] R. Milner, Measurement of Spin-dependent Electron Scattering from Deuterium at 850 MeV with BLAST, Seminar (Apr 2005).
- [16] R. P. Redwine, The BLAST Program at Bates: Using Polarization to Study Nucleon and Nuclear Structure, Department of Physics Colloquium (Oct 2008).

## Posters

- [1] K. Boddy, Compton Polarimeter at Bates, Poster (Oct 2004).
- [2] C. Crawford, B. Clisie, D. Dutta, H. Gao, J. Seely, Deuteron and Neutron Form Factors at Low  $Q^2$  using the BLAST Detector, Poster (Oct 2001).
- [3] P. Karpus, A General Overview of the BLAST Detector at the MIT-Bates Linac, Poster (Apr 2003).
- [4] P. Karpus, Present Status of Double Polarization Observables measured via Elastic Scattering of Polarized Electrons from Vector Polarized Deuterium using the BLAST Detector, Poster (Aug 2004).