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Dr. Garth M. Huber

Correspondence language: English

Contact Information

The primary information is denoted by (*)

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Dr. Garth Huber

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes

Degrees

- 1988/2 Doctorate, Physics, The University of Regina
- 1984/5 Bachelor's Honours, Physics, The University of Regina
- 1984/5 Bachelor's, Mathematics, The University of Regina

User Profile

Research Specialization Keywords: Cherenkov Detector, Data Analysis Software, Deep Exclusive Meson Production, Electron Scattering, Experimental Methods, Hadronic Structure, Intermediate Energy Subatomic Physics, Non-perturbative QCD & Factorization, Pion Form Factor

Employment

- 2013/5 Executive Director
Canadian Institute of Nuclear Physics
- 2009/9 Visiting Faculty
Physics, Science / Seattle, University of Washington
Part-time, Visiting Professorship
Tenure Status: Non Tenure Track
Visitor at National Institute for Nuclear Theory (INT)
- 2003/7 Professor
Physics, Science, The University of Regina
Full-time, Professor
Tenure Status: Tenure
- 2003/1 - 2003/8 Visiting Professor
Physics - Hall C, Thomas Jefferson National Accelerator Facility
Full-time, Visiting Professorship
Tenure Status: Non Tenure Track
- 1997/7 - 2003/6 Associate Professor
Physics, Science, The University of Regina
Full-time, Associate Professor
Tenure Status: Tenure

1994/7 - 1997/6	Assistant Professor Physics, Science, The University of Regina Full-time, Assistant Professor Tenure Status: Tenure Track
1990/2 - 1994/6	Research Scientist and Adjunct Assistant Professor Physics, Science, The University of Regina Full-time, Adjunct, Assistant Professor Tenure Status: Non Tenure Track
1988/3 - 1990/1	Research Associate Cyclotron Facility, Science / Bloomington, Indiana University Full-time Tenure Status: Non Tenure Track

Research Funding History

Awarded [n=8]

2018/4 - 2021/3 Co-investigator	Investigating Hadron Structure with CB-TAPS at MAMI, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Project Grant Total Funding - 405,000 Portion of Funding Received - 100,000 Funding Competitive?: Yes Co-investigator : Sarty, Adam; Principal Applicant : Hornidge, David
2016/4 - 2021/3 Principal Investigator	Studies of hadronic structure using electromagnetic probes, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics - Individual Total Funding - 525,000 Portion of Funding Received - 525,000 Funding Competitive?: Yes
2018/4 - 2021/3 Co-applicant	CPP+, the MRS Application of the Centre for Particle Physics, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Major Resources Support Total Funding - 1,291,885 Portion of Funding Received - 0 Funding Competitive?: Yes Principal Applicant : Pinfeld, James
2015/4 - 2020/3 Co-applicant	The Canadian Institute of Nuclear Physics (CINP), Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Major Resources Support Total Funding - 225,000 Portion of Funding Received - 30,000 Funding Competitive?: Yes

Co-applicant : Gerald Gwinner; Jean Barrette; Jeffery Martin; Jens Dilling; Rituparna Kanungo;

Principal Applicant : Paul Garrett

2015/4 - 2018/3
Co-investigator

Investigations of Hadronic Structure using CB-TAPS at the Mainz Microtron, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Subatomic Physics Project Grant

Total Funding - 430,000

Portion of Funding Received - 101,374

Funding Competitive?: Yes

Co-investigator : Adam Sarty;

Principal Investigator : David Hornidge

2016/4 - 2018/3
Principal Investigator

SoLID Heavy Gas Cherenkov Detector Prototype, Grant

Funding Sources:

Sylvia Fedoruk Canadian Centre for Nuclear Innovation

Total Funding - 67,252

Portion of Funding Received - 58,480

Funding Competitive?: Yes

Canada Foundation for Innovation (CFI)

John R. Evans Leaders Fund (JELF)

Total Funding - 49,980

Portion of Funding Received - 49,980

Funding Competitive?: Yes

2016/4 - 2018/3
Co-applicant

CPP+, the MRS Application of the Centre for Particle Physics, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Subatomic Physics Major Resources Support

Total Funding - 660,000

Portion of Funding Received - 0

Funding Competitive?: Yes

Principal Applicant : Pinfeld, James

2011/4 - 2016/3
Principal Investigator

Studies of Hadron Structure using Electromagnetic Probes, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Subatomic Physics Individual Discovery Grant

Total Funding - 282,000

Portion of Funding Received - 282,000

Funding Competitive?: Yes

Completed [n=2]

2012/4 - 2015/3
Co-investigator

Investigating Hadron Structure with CB-TAPS at MAMI, Grant

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)

Subatomic Physics Project Grant

Total Funding - 330,000

Portion of Funding Received - 60,750

Funding Competitive?: Yes

Co-investigator : Adam Sarty;
 Principal Investigator : David Hornidge

2013/12 - 2014/5
 Co-applicant Investigation of Portable, Low Cost, Radiation Detection Technology for use with Wireless Personal Radiation Detection Equipment, Grant

Funding Sources:
 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Engage Grant
 Total Funding - 25,000
 Portion of Funding Received - 0
 Funding Competitive?: Yes

Co-applicant : Lolos, GJ;
 Co-investigator : Kaletsch, K;
 Principal Investigator : Papandreou, Z

Student/Postdoctoral Supervision

Bachelor's Honours [n=8]

2019/5 - 2019/8
 Principal Supervisor Heinrich, Nathan (In Progress) , University of Regina
 Student Degree Expected Date: 2020/5
 Thesis/Project Title: Measurements of Exclusive Kaon and Pion Production at Jefferson Lab
 Present Position: Student

2018/5 - 2018/8
 Principal Supervisor Walls, Coulter (Completed) , University of Regina
 Thesis/Project Title: Extraction of the pion form factor from pi+ electroproduction data using the CKY Regge model
 Present Position: Student

2017/9 - 2018/4
 Principal Supervisor Michael Hladun (Completed) , University of Regina
 Thesis/Project Title: Simulations of Deep Exclusive Vector Meson Production
 Present Position: Computer programmer, Lumentum

2016/9 - 2017/4
 Academic Advisor Bacchiu, Alexander (Completed) , University of Regina
 Thesis/Project Title: The Search for Exotic Hadrons - Tetraquarks and Pentaquarks
 Present Position: Graduate Student, Carleton University

2016/5 - 2016/8
 Principal Supervisor Strugari, Matthew (Completed) , University of Regina
 Thesis/Project Title: Hardware and Software development for Nuclear Physics experiments at Jefferson Lab
 Present Position: Graduate Student, Dalhousie University

2015/5 - 2015/8
 Co-Supervisor Avila, Ethan (Completed) , Acadia University
 Thesis/Project Title: Testing and rehabilitation of the HMS (High Momentum Spectrometer) focal plane detectors at JLab.
 Present Position: Graduate Student, Dalhousie University

2014/5 - 2014/8
 Co-Supervisor Davis-Purcell, Benjamin (Completed) , McMaster University
 Thesis/Project Title: Hardware and software development for nuclear physics experiments at Jefferson Lab Hall C.
 Present Position: McMaster graduate student

2013/5 - 2013/8 Fitz-Gerald, Thomas (Completed) , University of Regina
 Principal Supervisor Thesis/Project Title: Optical coupling tests for 5" Hamamatsu PMTs, mirror alignment and assembly of Heavy Gas Cherenkov detector for JLab.
 Present Position: Engineering student, McGill University

Master's Thesis [n=3]

2016/9 - 2019/6 Evans, Rory (In Progress) , University of Regina
 Principal Supervisor Student Degree Expected Date: 2018/12
 Thesis/Project Title: Detector prototyping and simulation of exclusive π^- production from a polarized ^3He target with the SoLID spectrometer
 Present Position: Graduate Student, University of Regina

2016/9 - 2018/12 Ambrose, Ryan (Completed) , University of Regina
 Principal Supervisor Thesis/Project Title: SHMS detector commissioning and Studies of the $p(e,e'K^+)$ reaction with the SHMS at Jefferson Lab
 Present Position: Graduate Student, University of Regina

2015/9 - 2018/8 Basnet, Samip (Completed) , University of Regina
 Principal Supervisor Thesis/Project Title: Deep Exclusive Pseudoscalar Meson Production at Jefferson Lab Hall C
 Present Position: Graduate Student, Valencia, Spain

Doctorate [n=4]

2019/5 - 2024/6 Usman, Ali (In Progress) , University of Regina
 Principal Supervisor Student Degree Expected Date: 2024/6
 Thesis/Project Title: Exclusive K^+ and π^+ electroproduction with electron beam at Jefferson Lab
 Present Position: Student

2018/9 - 2023/12 Kumar, Vijay (In Progress) , University of Regina
 Principal Supervisor Student Degree Expected Date: 2023/12
 Thesis/Project Title: Exclusive K^+ and π^+ electroproduction with electron beam at Jefferson Lab
 Present Position: PhD student, University of Regina

2013/1 - 2017/10 Li, Wenliang (Bill) (Completed) , University of Regina
 Principal Supervisor Thesis/Project Title: Exclusive Backward-Angle Omega Meson Electroproduction
 Present Position: PDF, College of William & Mary

2012/8 - 2017/8 Paudyal, Dilli (Completed) , University of Regina
 Co-Supervisor Thesis/Project Title: Spin Polarizability of a Proton using Polarized Photon Beam and Polarized Butanol Target at Mainz Microtron
 Present Position: UofR PDF

Post-doctorate [n=1]

2017/9 - 2018/12 Paudyal, Dilli (Completed) , University of Regina
 Co-Supervisor Thesis/Project Title: Global analysis of spin polarizabilities and drafting of manuscripts.
 Present Position: UofR PDF

Research Associate [n=4]

- 2018/8 - 2021/8
Principal Supervisor Kay, Stephen (In Progress) , University of Regina
Thesis/Project Title: Acquisition and analysis of pi+ and K+ electroproduction data from Jefferson Lab Hall C. SoLID Heavy Gas Cherenkov detector prototyping for Jefferson Lab. Physics simulations for the Electron-Ion Collider.
Present Position: Research Associate, University of Regina
- 2013/10 - 2019/9
Co-Supervisor Martel, Philippe (In Progress) , Mt. Allison University/JGU Mainz
Thesis/Project Title: Proton Spin Polarizabilities experiments at MAMI
Present Position: Research Associate, Johannes Gutenberg University of Mainz
- 2013/7 - 2018/6
Principal Supervisor Ahmed, Zafar (Completed) , University of Regina
Thesis/Project Title: JLab Hall C data reconstruction. Proton spin polarizabilities experiment at MAMI. Commissioning of SHMS+HMS with beam at JLab. Studies of pion electroproduction with the SoLID detector at JLab, and with the future EIC.
Present Position: Computer analyst
- 2009/10 - 2014/3
Co-Supervisor Middleton, Duncan (Completed) , Mt. Allison University
Thesis/Project Title: Proton Polarizabilities Experiment at the Mainz Microtron
Present Position: Medical Physicist - UK National Health System

Event Administration

- 2018/9 - 2021/8 Organizing Committee, Nucleus Nucleus Collision Conference (NN2021), Conference, 2021/6 - 2021/6
- 2019/6 - 2020/5 Organizing Committee, Workshop on Exclusive Reactions at High Momentum Transfer, Workshop, 2020/2 - 2020/2
- 2019/4 - 2020/4 Program Committee, American Physical Society (APS) April Meeting, Washington DC, Conference, 2020/4 - 2020/4
- 2018/8 - 2019/4 Co-Chair, American Physical Society Topical Group on Hadronic Physics biennial meeting, Conference, 2019/4 - 2019/4
- 2016/1 - 2016/7 Organizer, Jefferson Lab User's Group Annual Workshop, Workshop, 2016/7 - 2016/7
- 2015/1 - 2015/6 Organizer, Jefferson Lab User's Group Annual Workshop, Workshop, 2015/6 - 2015/6
- 2014/9 - 2015/5 Member, International Advisory Board, Conference on the Intersections of Particle and Nuclear Physics, Conference, 2015/5 - 2015/5

Editorial Activities

- 2017/6 - 2019/6 Editorial Board Member, Particles, Journal
- 2015/11 - 2018/10 Subject Editor for Nuclear Physics, FACETS, Journal
- 2014/7 - 2017/6 Regional Editor, Physics International, Journal
- 2016/3 - 2016/10 Referee, Physics International, Journal
- 2015/2 - 2015/3 Referee, Physics International, Journal

Expert Witness Activities

2016/7 - 2016/9 Evidence review, RCMP Homicide Investigation Report, Canada, Regina
We were asked by the RCMP Forensic Identification Section (FIS) to provide a physics-based review of certain information in a homicide case, in the form of a 4 page written report.

Organizational Review Activities

2019/3 - 2019/3 Referee, U.S. Department of Energy
Office of Science Grant Proposal Review

2019/2 - 2019/3 Referee, U.S. National Science Foundation
PHY - Nuclear Precision Measurements Proposal Review

2019/1 - 2019/2 Referee, Al al Bayt University
Research Evaluation for Promotion to Full Professor

2018/12 - 2019/1 Referee, Natural Sciences and Engineering Research Council of Canada (NSERC)
External referee for two Discovery Grant applications

2018/11 - 2018/11 Referee, The University of Manitoba
Research Evaluation for Promotion to Full Professor

2018/9 - 2018/9 Referee, Steacie Memorial Fund
E.W.R. Steacie Memorial Fellowship Reviewer

2018/3 - 2018/4 Referee, University of Winnipeg
CRC Tier 1 renewal review

2018/3 - 2018/4 Referee, Memorial University of Newfoundland
Assessment for Distinguished University Professor

2017/7 - 2017/10 Referee, Steacie Memorial Fund
E.W.R. Steacie Memorial Fellowship Reviewer

2017/7 - 2017/8 External Examiner, University of Victoria
Ph.D. thesis of Nafisa Tasneem

2017/6 - 2017/7 Referee, Canada Council for the Arts
Killam Fellowship Reviewer

2016/4 - 2016/4 Proposal Review, U.S. Department of Energy
Office of Science Grant Proposal Review #xxxx18

2016/4 - 2016/4 Proposal Review, U.S. National Science Foundation
PHY - Nuclear & Hadron Quantum Chromodynamics Mid-Scale Proposal Review

2016/4 - 2016/4 Proposal Review, U.S. Department of Energy
Office of Science, Grant Proposal Review #xxxx29

2016/2 - 2016/2 Proposal Review, U.S. National Science Foundation
PHY - Nuclear & Hadron Quantum Chromodynamics Individual Proposal Review

2015/9 - 2015/10 Referee, University of Winnipeg
External referee for granting of tenure and promotion to Associate Professor

2015/1 - 2015/1 Proposal Review, U.S. National Science Foundation
Grant Proposal Reviewer (PHY - Hadrons and Light Nuclei)

- 2013/12 - 2013/12 Referee, Natural Sciences and Engineering Research Council of Canada (NSERC)
Subatomic Physics Individual Discovery Grant Reviewer
- 2013/1 - 2013/1 Referee, U.S. National Science Foundation
Grant Proposal Reviewer (PHY - Nuclear Structure & Reactions)

International Collaboration Activities

- 2015/12 - 2025/12 Collaboration Member, United States
Member of the Electron-Ion Collider User's Group (EICUG), <http://www.eicug.org>. Lead contact for Canadian members of the EICUG, and Institutional Representative for the University of Regina on the EICUG Institutional Board.
- 2015/10 - 2025/12 Collaboration Member, United States
Solenoidal Large Intensity Detector (SoLID) Collaboration member, GPD working group, Heavy Gas Cherenkov working group.
- 2009/4 - 2025/12 Collaboration Member, Germany
Member of the A2 Collaboration, at the Institute for Nuclear Physics, Mainz, Germany. This is the scientific collaboration that maintains and performs experiments at the Crystal Ball + TAPS facility. I have supervised several undergraduate and one graduate students on research at this facility, as well as contributed to the co-supervision of several Postdoctoral Research Associates. Within this collaboration, I am an active member of the Compton working group.
- 2001/1 - 2025/12 Collaboration Member, United States
Hall D (GlueX) Collaboration, Thomas Jefferson National Accelerator Facility. As part of this collaboration, I have contributed to the design of the Barrel Calorimeter by preparing reports on the Barrel Calorimeter readout and performing simulation studies of the invariant mass resolution for neutral particle reconstruction. I have also contributed as a sub-committee member of the collaboration.
- 1994/7 - 2025/12 Collaboration Member, United States
Hall C User's Group, Thomas Jefferson National Accelerator Facility. This is the umbrella organization representing the user's of the Hall C facility at JLab. As one of these users, I have made substantial contributions to the Hall C scientific program: co-spokesperson of several experiments, analysis software and calibration of the HMS Aerogel Cherenkov detector, construction of Heavy Gas Cherenkov detector for the Super HMS. I have also supervised numerous undergraduate and graduate students on Hall C projects, as well as two postdoctoral fellows stationed there.
- 1990/4 - 2025/12 Collaboration Member, United States
Hall A Collaboration, Thomas Jefferson National Accelerator Facility. As part of my duties with the Hall A collaboration, I have helped construct one Aerogel Cherenkov detector, and a series of scintillator hodoscopes. I have participated in many data taking runs, and have supervised three M.Sc. students on topics related to this work.
- 1990/4 - 2025/12 Member, United States
I have been a member of the Jefferson Lab User's Group for many years and have contributed extensively to its scientific program. In 2014, I was elected to a 2-year term on the User's Group Board of Directors (UGBOD).

Committee Memberships

2019/1 - 2020/6	Committee Member, Astroparticle Physics Community Planning Committee, McDonald Astroparticle Institute Long range planning for astroparticle physics research in Canada
2015/7 - 2020/6	Committee Member, TRIUMF Policy and Planning Advisory Committee (PPAC), TRIUMF This committee evaluates all requests for TRIUMF infrastructure in support of off-site and on-site programs.
2017/7 - 2018/7	Committee Member, Review Panel, U.S. National Science Foundation
2015/6 - 2016/9	Ex-Officio, Subatomic Physics Long Range Planning Committee (SAP-LRPC), Natural Sciences and Engineering Research Council of Canada (NSERC) As CINP Executive Director, I was a resource person to the LRPC as they developed an overall plan for subatomic physics research in Canada for the years 2017-21, with a view through to 2026.
2014/6 - 2016/6	Committee Member, Jefferson Lab User's Group Board of Directors, Jefferson Lab User's Group This is an elected position. We represent User concerns to Jefferson Lab management and the US Department of Energy, and also organize an annual User's Group Workshop.
2015/4 - 2015/10	Chair, CINP Brief Writing Committee, Canadian Institute of Nuclear Physics This committee is charged by NSERC to gather input from the Canadian nuclear physics research community and develop a "Brief" for input to the NSERC Subatomic Physics Long Range Plan for the years 2016-21. As Chair, I was lead editor on the document.
2010/6 - 2013/4	Committee Member, Board of Directors, Canadian Institute of Nuclear Physics (CINP)

Presentations

- Li W. (2019). Exclusive Backward-Angle Meson Electroproduction -- Unique Access to u-channel Physics. APS Topical Group on Hadronic Physics Biennial Workshop, Denver, United States
Main Audience: Researcher
Invited?: No, Keynote?: No
- Li W. (2018). Backward Angle Omega Meson Electroproduction. Hall C Winter Workshop, Jefferson Lab, Newport News, VA, United States
Main Audience: Researcher
Invited?: No, Keynote?: No
- Ahmed Z. (2018). Light Meson Form Factors at EIC. Workshop on Pion and Kaon Structure at an Electron Ion Collider (PIEIC 2018), Washington, DC, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
- (2018). The experimental determination of the pion and kaon form factors and structure functions. American Physical Society April Meeting, Columbus, OH, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
- Li W. (2018). Exclusive Backward-Angle Meson Electroproduction -- Unique Access to u-channel Physics. Canadian Association of Physicists Congress, Halifax, NS, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

6. (2018). The Nucleon Polarizability Program at MAMI-A2. Catholic University of America Physics Seminar, Washington, DC, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
7. (2017). New Perspectives on the Charged Pion Form Factor. Canadian Association of Physicists Congress, Kingston, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
8. Li, Wenliang. (2017). u -Channel omega Meson Production from the Fpi-2 Experiment. Jefferson Lab Hall C Winter Workshop, Newport News, VA, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
9. Ahmed Z, Ye Z. (2017). E12-10-006B: Deep Exclusive π^- Production with Transversely Polarized ^3He using SoLID. SoLID Run Group Review, Jefferson Lab, Newport News, VA, United States
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No
10. Basnet, Samip. (2017). π^+ Electroproduction at High $-t$. Canadian Association of Physicists Congress, Kingston, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
11. (2017). Transverse Meson Structure from Exclusive Measurements. Workshop on Pion and Kaon Structure at an Electron Ion Collider, Argonne, IL, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
12. (2017). Deep Exclusive $p(e,e'\pi^+)n$ and $p(e,e'K^+)\Lambda$ Studies at Jefferson Lab. University of Victoria Physics Seminar. This was also given at The George Washington University (Washington, DC) in 2018., Victoria, BC, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
13. (2016). Deep Exclusive $p(e,e'\pi^+)n$ Studies at Jefferson Lab. Argonne National Laboratory Physics Division Seminar. This presentation was also given as a Special Seminar at the University of Basel Physics Department (Basel, Switzerland)., Argonne, IL, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
14. (2016). Deep Exclusive π^- Production using a Transversely Polarized ^3He Target and the SoLID Spectrometer. APS Division of Nuclear Physics Meeting, Vancouver, BC, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
15. (2016). Exploring the Electromagnetic Structure of the Charged Pion and Kaon. Canadian Association of Physicists Annual Congress, Ottawa, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
16. (2015). The Reliable Determination of F_π Beyond $Q^2=6 \text{ GeV}^2$. APS Division of Nuclear Physics Meeting, Santa Fe, NM, United States
Main Audience: Researcher
Invited?: No, Keynote?: No

17. A2 Collaboration. (2015). The Nucleon Polarizability Program at MAMI A2. Conference on the Intersections of Particle and Nuclear Physics (CIPANP), Vail, CO, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
18. (2015). Deep Exclusive Meson Production: Studies of Underlying Quark-Gluon Structure at Jefferson Lab's Hall C. TRIUMF Colloquium Oct 6; Prairie Universities Physics Seminar Series: University of Saskatchewan Jan 6, University of Lethbridge Feb 26, University of Calgary Feb 27., Vancouver, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No
19. (2015). Backward Angle Vector Meson Production. Workshop on Exclusive Meson Production and Short-Range Hadron Structure, Newport News, VA, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
20. (2014). Separated π^-/π^+ Ratios from the Pion Form Factor Experiments. Jefferson Lab User's Group Meeting, Newport News, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
21. (2014). New Results from Jefferson Lab on Exclusive, Forward π^\pm Electroproduction from Deuterium. A2 Collaboration, Mainz, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: No
22. (2013). Deep Exclusive Meson Production at Jefferson Lab Hall C. Canadian Association of Physicists Congress, Montreal, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
23. Wenliang Li. (2013). Heavy Gas Cherenkov Detector Construction for Hall C JLab 12 GeV Upgrade. Meeting of the American Physical Society Division of Nuclear Physics, Newport News, United States
Main Audience: Researcher
Invited?: No, Keynote?: No
24. (2013). Separated Response Functions in Exclusive, Forward π^\pm Electroproduction on 2H. Meeting of the American Physical Society, Division of Nuclear Physics, Newport News, United States
Main Audience: Researcher
Invited?: No, Keynote?: No
25. (2013). π^-/π^+ Exclusive Pion Electroproduction Results from Jefferson Lab. American Physical Society April Meeting, Denver, CO, United States
Main Audience: Researcher
Invited?: No, Keynote?: No

Publications

Journal Articles

1. Li W*, ..., Xu C*, ... (2019). Exclusive Backward-Angle Omega Meson Electroproduction. Physical Review Letters.
Submitted
Refereed?: Yes

2. Bashkanov M, Kay S*, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2019). Deuteron photodisintegration by polarized photons in the region of the $d^*(2380)$. *Physics Letters B*. 789: 7-12.
Published
Refereed?: Yes
3. Paudyal D*, ..., Martel PP*, ..., (2019). Spin Polarizabilities of the proton by measurement of Compton double-polarization observables. *Physical Review Letters*.
Submitted
Refereed?: Yes
4. Akondi CS, ..., Martel PP*, ..., Middleton DG*, ..., Paudyal D*, ... (2019). Experimental Study of the $\gamma p \rightarrow K^0 \Sigma^+$, $\gamma n \rightarrow K^0 \Lambda$ and $\gamma n \rightarrow K^0 \Sigma^0$ Reactions at the Mainz Microtron. *Physical Review C*.
Submitted
Refereed?: Yes
5. Armstrong W, ..., Butuceanu C*, ... (2019). Revealing Color Forces with Transverse Polarized Electron Scattering. *Physical Review Letters*. 122: 022002 1-7.
Published
Refereed?: Yes
6. Benali M, ..., Ahmed Z*, ... (2018). Deeply Virtual Compton Scattering off the Neutron. *Physical Review Letters*.
Submitted
Refereed?: Yes
7. Prakhov S, ..., Ahmed Z*, ..., Martel PP*, ..., Middleton DG*, ..., Paudyal D*, ... (2018). High-statistics measurement of the $\eta \rightarrow 3\pi^0$ decay at MAMI. *Physical Review C*. 97: 065203 1-10.
Published
Refereed?: Yes
8. Kaeser A, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2018). First measurement of helicity-dependent cross sections in $\pi^0 \eta$ photoproduction from quasi-free nucleons. *Physics Letters B*. 786: 305-312.
Published
Refereed?: Yes
9. Maxwell JD, ..., Butuceanu C*, ... (2018). Design and Performance of the Spin Asymmetries on the Nucleon Experiment. *Nuclear Instruments and Methods in Physics Research A*. 885: 145-159.
Published
Refereed?: Yes
10. Puckett AJR, ..., Butuceanu C*, ... (2018). Technical Supplement to "Polarization Transfer Observables in Elastic Electron-Proton Scattering at $Q^2=2.5, 5.2, 6.8$ and 8.5 GeV^2 ". *Nuclear Instruments and Methods in Physics Research*. A910: 54-79.
Published
Refereed?: Yes
11. Albayrak I, ..., Butuceanu C*, ... (2018). Measurements of Non-Singlet Moments of Nucleon Structure Functions and Comparison to Lattice QCD for $Q^2=4 \text{ GeV}^2$. *Physical Review Letters*.
Submitted
Refereed?: Yes
12. Liyanage A, ..., Butuceanu C*, ... (2018). Proton Form Factor Ratio $\mu p G_{Ep}/G_{Mp}$ from Double Spin Asymmetry. *Physical Review C*.
Submitted
Refereed?: Yes
13. Adlarson P, ..., Ahmed Z*, ..., Martel PP*, ... Paudyal D*, ... (2018). Measurement of the decay $\eta' \rightarrow \pi^0 \pi^0 \eta$ at MAMI. *Physical Review D*. 98: 012001 1-15.
Published
Refereed?: Yes

14. Carmignotto M, ..., Vidakovic S*, ..., Xu C*, ... (2018). Separated kaon electroproduction cross section and kaon form factor from 6 GeV JLab data. *Physical Review C*. 97: 025204 1-6.
Published
Refereed?: Yes
15. Dieterle M, ..., Ahmed Z*, ..., Martel PP*, ..., Middleton DG*, ..., Paudyal D*, ... (2018). Photoproduction of π^0 mesons off protons and neutrons in the second and third nucleon resonance region. *Physical Review C*. 97: 065205 1-28.
Published
Refereed?: Yes
16. Sokhoyan V, ..., Ahmed Z*, ..., Middleton DG*, ..., Martel PP*, ..., Paudyal D*, ... (2018). Study of the $\gamma p \rightarrow \pi^0 \eta p$ reaction with the A2 setup at MAMI. *Physical Review C*.
Submitted
Refereed?: Yes
17. Kasharevov VL, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). Study of η and η' Photoproduction at MAMI. *Physical Review Letters*. 118: 212001 1-6.
Published
Refereed?: Yes
18. Mazouz M, ... (2017). Rosenbluth separation of the π^0 Electroproduction Cross Section off the Neutron. *Physical Review Letters*. 118: 222002 1-6.
Published
Refereed?: Yes
19. Al Ghouli H, ... (2017). Measurement of the beam asymmetry Σ for π^0 and η photoproduction on the proton at $E_\gamma=9$ GeV. *Physical Review C*. 95: 042201(R) 1-6.
Published
Refereed?: Yes
20. Puckett AJR, ..., Butuceanu C*, ... (2017). Polarization Transfer Observables in Elastic Electron-Proton Scattering at $Q^2=2.5, 5.2, 6.8$ and 8.5 GeV². *Physical Review C*. 96: 055203 1-40.
Published
Refereed?: Yes
21. Adlarson P, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). Measurement of the $\pi^0 \rightarrow e^+ e^- \gamma$ Dalitz decay at MAMI. *Physical Review C*. 95: 025202 1-10.
Published
Refereed?: Yes
22. Sokhoyan V, ..., Martel PP*, ..., Middleton DG*, ..., Paudyal D*, ... (2017). Determination of the scalar polarizabilities of the proton using beam asymmetry Σ_3 in Compton scattering. *European Physical Journal A*. 53: 14 1-6.
Published
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