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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

Recognitions

- 2024/5 2024 Award for Outstanding Graduate Supervision - 1,000
The University of Regina
Prize / Award
Recognition of exceptional contributions to graduate education at 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=4]

2024/9 - 2027/12 Principal Applicant	Solenoidal Large Intensity Device (SoLID) Heavy Gas Cherenkov Detector, Grant Funding Sources: Innovation Saskatchewan IF2023 matching funds Total Funding - 300,000 Portion of Funding Received - 300,000 Funding Competitive?: Yes University of Regina IF2023 matching funds Total Funding - 209,500 Portion of Funding Received - 209,500 Funding Competitive?: Yes Canada Foundation for Innovation (CFI) Innovation Fund 2023 Competition Total Funding - 509,500 Portion of Funding Received - 509,500 Funding Competitive?: Yes
2021/4 - 2026/3 Principal Investigator	Studies of hadron structure with electromagnetic probes, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Individual Discovery Total Funding - 550,000 Portion of Funding Received - 550,000 Funding Competitive?: Yes
2020/4 - 2025/3	The Canadian Institute of Nuclear Physics (CINP), Grant

Co-applicant	<p>Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Major Resources Support Total Funding - 385,000 Portion of Funding Received - 0 Funding Competitive?: Yes</p> <p>Co-applicant : Gericke, M; Grinyer, G; Jeon, Sangyong; Kanungo, R; Martin, J; Ruiz, C; Principal Applicant : Hackman, G</p>
2023/4 - 2025/3 Co-applicant	<p>Canadian Participation at the Electron-Ion Collider (EIC), Grant</p> <p>Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Discovery Project Grant Total Funding - 120,000 Portion of Funding Received - 57,500 Funding Competitive?: Yes</p> <p>Co-applicant : Hornidge D; Longo S; Papandreou Z; Principal Applicant : Deconinck W</p>
Completed [n=7]	
2021/4 - 2023/3 Co-investigator	<p>Canadian Participation at the Electron-Ion Collider (EIC), Grant</p> <p>Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Discovery Project Grant Total Funding - 147,000 Portion of Funding Received - 39,000 Funding Competitive?: Yes</p> <p>Co-applicant : Hornidge, D; Papandreou, Z; Principal Applicant : Deconinck, W</p>
2018/4 - 2021/3 Co-investigator	<p>Investigating Hadron Structure with CB-TAPS at MAMI, Grant</p> <p>Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Project Grant Total Funding - 405,000 Portion of Funding Received - 30,000 Funding Competitive?: Yes</p> <p>Co-investigator : Sarty, Adam; Principal Investigator : Hornidge, David</p>
2016/4 - 2021/3 Principal Investigator	<p>Studies of hadronic structure using electromagnetic probes, Grant</p> <p>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</p>
2015/4 - 2020/3 Co-applicant	<p>The Canadian Institute of Nuclear Physics (CINP), Grant</p> <p>Funding Sources:</p>

Natural Sciences and Engineering Research Council of Canada (NSERC)
 Subatomic Physics Major Resources Support
 Total Funding - 225,000
 Portion of Funding Received - 0
 Funding Competitive?: Yes

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

Principal Applicant : Garrett, Paul

2019/3 - 2019/9
 Co-applicant

Pion Experiments at Jefferson Lab and Feasibility Studies for EIC, Grant

Funding Sources:

Mathematics of Information Technology and Complex Systems (MITACS)
 Globalink Research Award
 Total Funding - 6,000
 Portion of Funding Received - 0
 Funding Competitive?: Yes

Co-applicant : Horn, Tanja;

Principal Applicant : Kay, Stephen

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 : Sarty, Adam;

Principal Investigator : Hornidge, David

2016/4 - 2018/3
 Principal Investigator

SoLID Heavy Gas Cherenkov Detector Prototype, Grant

Funding Sources:

Sylvia Fedoruk Canadian Centre for Nuclear Innovation
 Research Grant
 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

Student/Postdoctoral Supervision

Bachelor's [n=3]

- 2024/5 - 2024/8
Principal Supervisor Zach Sullivan (In Progress) , University of Regina
Student Degree Expected Date: 2026/5
Thesis/Project Title: Rate dependent detector studies for the PionLT experiment at Jefferson Lab
Present Position: Undergraduate student
- 2023/4 - 2023/8
Principal Supervisor Portia Switzer (In Progress) , University of Winnipeg
Student Degree Expected Date: 2025/4
Thesis/Project Title: Beam spin asymmetry analysis for the Delta0pi+ final state from KaonLT data
Present Position: Undergraduate Student
- 2021/2 - 2021/4
Co-Supervisor Kirby, Emma (Completed) , University of Regina
Thesis/Project Title: SHMS Heavy Gas Cherenkov prototype testing
Present Position: Housing Assistant

Bachelor's Honours [n=3]

- 2019/5 - 2019/8
Principal Supervisor Heinrich, Nathan (Completed) , University of Regina
Thesis/Project Title: Measurements of Exclusive Kaon and Pion Production at Jefferson Lab
Present Position: Graduate Student, University of Regina
- 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: Graduate Student, University of Manitoba
- 2017/9 - 2018/4
Principal Supervisor Hladun, Michael (Completed) , University of Regina
Thesis/Project Title: Simulations of Deep Exclusive Vector Meson Production
Present Position: Computer programmer, Lumentum

Master's Thesis [n=4]

- 2021/12 - 2023/12
Principal Supervisor Preet, Love (Completed) , University of Regina
Thesis/Project Title: Understanding hadronic mass through light meson structure at the Electron-Ion Collider
Present Position: Research Associate, University of Regina
- 2016/9 - 2019/8
Principal Supervisor Evans, Rory (Completed) , University of Regina
Thesis/Project Title: Detector prototyping and simulation of exclusive pi- production from a polarized ³He target with the SoLID spectrometer
Present Position: Programmer/Electrical Designer, GN Thermoforming Equipment, Halifax
- 2016/9 - 2018/12
Principal Supervisor Ambrose, Ryan (Completed) , University of Regina
Thesis/Project Title: SHMS Heavy Gas Cherenkov detector commissioning
Present Position: PhD Student, Dalhousie University
- 2015/9 - 2018/8
Principal Supervisor Basnet, Samip (Completed) , University of Regina
Thesis/Project Title: Deep Exclusive pi+ Production from low to high -t at Jefferson Lab Hall C
Present Position: PhD Student, KU Leuven, Belgium

Doctorate [n=5]

- 2022/9 - 2027/8
Principal Supervisor Postuma, Alicia (In Progress) , University of Regina
Student Degree Expected Date: 2027/8
Thesis/Project Title: Beam spin asymmetries in the deep exclusive meson electroproduction
Present Position: Graduate Student
- 2020/11 - 2026/4
Principal Supervisor Junaid, Muhammad (In Progress) , University of Regina
Thesis/Project Title: Pion Electromagnetic Form Factor to High Q^2
Present Position: PhD Student, University of Regina
- 2020/9 - 2026/8
Principal Supervisor Heinrich, Nathan (In Progress) , University of Regina
Thesis/Project Title: Scaling studies of the L/T-separated deep exclusive π^+ electro-production reaction
Present Position: PhD Student, University of Regina
- 2019/7 - 2024/12
Principal Supervisor Usman, Ali (In Progress) , University of Regina
Student Degree Expected Date: 2024/12
Thesis/Project Title: Beam spin asymmetries of the deep exclusive $p(e,e'\pi^+)\Delta_0$ reaction up to $Q^2=5.5 \text{ GeV}^2$.
Present Position: PhD Student, University of Regina
- 2018/9 - 2024/8
Principal Supervisor Kumar, Vijay (In Progress) , University of Regina
Student Degree Expected Date: 2024/8
Thesis/Project Title: Measurement of the pion exclusive electroproduction cross-section in the E12-19-006 experiment at Jefferson Lab
Present Position: PhD student, University of Regina

Post-doctorate [n=5]

- 2023/8 - 2026/8
Principal Supervisor Abdennacer Hamdi, University of Regina
Thesis/Project Title: Physics analysis of data from the KaonLT and PionLT experiments at Jefferson Lab, and detector simulations for the Electron-Ion Collider
Present Position: Post-doctoral Fellow
- 2018/8 - 2023/5
Principal Supervisor Kay, Stephen, University of Regina
Thesis/Project Title: Acquisition and analysis of Kaon-LT 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 Scientist, University of York, UK
- 2017/9 - 2018/12
Co-Supervisor Paudyal, Dilli, University of Regina
Thesis/Project Title: Global analysis of spin polarizabilities and drafting of manuscripts.
Present Position: Research Programmer Analyst, Farm Credit Canada
- 2013/10 - 2020/3
Co-Supervisor Martel, Philippe, Mt. Allison University/JGU Mainz
Thesis/Project Title: Proton Spin Polarizabilities experiments at MAMI
Present Position: Software Engineer, Stryker
- 2013/7 - 2018/6
Principal Supervisor Ahmed, Zafar, 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

Research Associate [n=1]

2024/1 - 2026/4 Love Preet, University of Regina
 Principal Supervisor Thesis/Project Title: Feasibility studies of Deep Exclusive Meson Production at the Electron-Ion Collider
 Present Position: Research Associate

Event Administration

2024/4 - 2026/4 Program Committee, American Physical Society Division of Nuclear Physics (APS-DNP) Responsible for all DNP conference programs for duration. 2 conferences/year X 2 years, Conference, 2024/4 - 2026/4

2024/7 - 2024/12 Program Committee, 2nd International Workshop on Science at the Luminosity Frontier: Jefferson Lab at 22 GeV, Laboratori Nazionali di Frascati, Italy, Conference, 2024/12 - 2024/12

2023/8 - 2024/6 Program Committee, Nucleus Nucleus Collision Conference (NN2024), Whistler BC, Conference, 2024/6 - 2024/6

2022/10 - 2023/5 Program Committee, Science at the Luminosity Frontier: Jefferson Lab at 22 GeV, Workshop, 2023/1 - 2023/1

2021/9 - 2022/6 Co-Organizer, Physics Opportunities of the Electron-Ion Collider, Canadian Association of Physicists Congress, McMaster University, Hamilton ON, Workshop, 2022/6 - 2022/6

2018/9 - 2021/8 Organizing Committee and Program Committee, Nucleus Nucleus Collision Conference (NN2021), Whistler BC, Conference, 2021/6 - 2021/6

2020/9 - 2021/4 Program Committee, American Physical Society Topical Group on Hadronic Physics biennial meeting, Sacramento CA, Conference, 2021/4 - 2021/4

2019/7 - 2020/9 Organizer, Jefferson Lab Workshop on Backward-Angle (u-Channel) Physics <https://www.jlab.org/indico/event/375/>, Workshop, 2020/9 - 2020/9

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, Denver CO, Conference, 2019/4 - 2019/4

Editorial Activities

2017/7 - 2025/6 Editorial Board Member, Particles (MDPI), Journal

2023/3 - 2023/9 Referee, Association of Asia Pacific Physical Societies (AAPPS) Bulletin, Journal

2022/9 - 2022/9 Referee, Physics International, Journal

2021/2 - 2021/2 Referee, Physics International, Journal

2018/12 - 2018/12 Referee, Particles (MDPI), Journal

2015/11 - 2018/10 Subject Editor for Nuclear Physics, FACETS, Journal

Organizational Review Activities

2024/6 - 2024/6 Referee, U.S. Department of Energy Office of Science Proposal Review

2024/5 - 2024/6	Referee, University of Giessen Evaluation for Granting of Habilitation in Experimental Physics
2024/4 - 2024/5	Referee, Queen's University at Kingston CFI Innovation Fund 2025 Competition, Reviewer for 3 Astroparticle Physics Notices of Intent
2024/3 - 2024/3	Referee, U.S. National Science Foundation Proposal Review (PHY - Nuclear & Hadron Quantum Chromodynamics)
2023/5 - 2023/5	Referee, Catholic University of America Tenure and promotion to Associate Professor
2023/4 - 2023/4	Referee, U.K. Science and Technology Facilities Council (STFC) Nuclear Physics Grants Panel, 3 reviews
2022/11 - 2022/11	Referee, University of Winnipeg Evaluation for Promotion to Professor
2022/9 - 2022/9	Referee, U.S. Department of Energy Office of Science External Grant Proposal Review
2022/3 - 2022/3	Referee, U.S. Department of Energy Office of Science External Grant Proposal Review
2022/2 - 2022/2	Referee, U.S. National Science Foundation Physics Division, Nuclei and Hadron Quantum Chromodynamics Proposal Review
2021/3 - 2021/3	Referee, Memorial University of Newfoundland Assessment for Distinguished University Professor
2021/2 - 2021/2	Referee, U.S. National Science Foundation Physics Division, Nuclear Structure & Reactions Proposal Review
2020/12 - 2020/12	Referee, U.S. Department of Energy Office of Science External Grant Proposal Review
2020/4 - 2020/4	Review Committee, Jefferson Lab GlueX Collaboration Review of the scientific merit and technical feasibility of an proposal to measure the GDH Sum Rule
2020/3 - 2020/3	Referee, U.S. National Science Foundation Physics Division, Nuclear and Hadron Quantum Chromodynamics Proposal Review
2020/3 - 2020/3	Referee, U.S. Department of Energy Office of Science External Grant Proposal Review
2019/9 - 2019/9	Referee, E.W.R. Steacie Memorial Fund Review of a nominee for the Steacie Memorial Prize
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

International Collaboration Activities

2020/5 - 2035/6	Deputy Spokesperson and Collaboration Member, Canada I am one of the founding members of EIC-Canada, and served as Deputy Spokesperson from 2020-22. This is the umbrella organization that was formed to coordinate Canadian experimental efforts at the Electron-Ion Collider (EIC) in the USA.
2015/12 - 2035/6	Collaboration Member, United States of America Member of the Electron-Ion Collider User's Group (EICUG), http://www.eicug.org . Institutional Representative for the University of Regina on the EICUG Institutional Board.
2015/10 - 2035/6	Collaboration Member, United States of America Solenoidal Large Intensity Detector (SoLID) Collaboration member, GPD working group, Heavy Gas Cherenkov working group. I have supervised one MSc student so far on SoLID Heavy Gas Cherenkov detector work and physics simulations for the extraction of GPD E-tilde from single spin asymmetry data.
1994/7 - 2035/6	Collaboration Member, United States of America 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 - 2035/6	Collaboration Member, United States of America 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 - 2035/6	Member, United States of America 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).
2001/1 - 2029/6	Collaboration Member, United States of America 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.

2009/4 - 2022/4 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.

Committee Memberships

2020/6 - 2021/9 Ex-Officio, Canadian Subatomic Physics Long Range Planning Committee (SAP-LRPC), Natural Sciences and Engineering Research Council of Canada (NSERC)
 As CINP Executive Director, I am a non-voting committee member and resource person of the LRPC as they develop the overall plan for subatomic physics research in Canada. The scope of the plan is the years 2022-36, and will be in effect from 2022-26.

2020/1 - 2020/12 Chair, CINP Brief Writing Committee, Canadian Institute of Nuclear Physics
 This committee gathers input from the Canadian nuclear physics research community and develops a "brief" for input to the Canadian Subatomic Physics Long Range Plan for the years 2022-36. As Chair, I was lead editor of the document.

2019/1 - 2020/12 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

Presentations

- (2024). Measurement of the Charged Pion and Kaon Form Factors to High Q^2 at JLab and the EIC. CFNS Workshop, Elucidating the Structure of Nambu-Goldstone Bosons, Stony Brook, United States of America
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
- Postuma AC*. (2024). Beam-Spin Asymmetry of Exclusive Pion Production in the KaonLT Experiment. Jefferson Lab Halls A/C Collaboration Meeting (hybrid), Newport News, United States of America
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
- (2024). u-channel Exclusive Electroproduction at Jefferson Lab. CFNS Workshop on Baryon Dynamics, Stony Brook, United States of America
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
- Preet L*. (2024). DEMPgen: Physics event generator for Deep Exclusive Meson Production at Jefferson Lab and the EIC. Jefferson Lab EIC Meeting (hybrid), Newport News, United States of America
 Main Audience: Researcher
 Invited?: Yes, Keynote?: Yes

5. Kumar V*. (2024). Pion Form Factor Measurements at JLab and the EIC. International Workshop on Probing Hadron Structure at the Electron-Ion Collider, Bangalore, India
Main Audience: Researcher
Invited?: Yes, Keynote?: No
6. (2024). L-T Separations in Deep Exclusive Meson Production with JLab 22 GeV. Jefferson Lab Halls A/C Collaboration Meeting (hybrid), Newport News, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
7. (2024). The SoLID GPD Program. ECT* Workshop, Towards Improved Hadron Femtography with Hard Exclusive Reactions III, Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
8. Kay SJD*. (2023). Future Pion Structure Studies with JLab 22 GeV and EIC. APS Topical Group on Hadronic Physics Biennial Workshop, Minneapolis, MN, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
9. (2023). L-T Separations in Deep Exclusive Meson Production at JLab 20+ GeV. Hall C User Meeting, Jefferson Lab (hybrid), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
10. (2023). Measurement of the Charged Pion Form Factor to High Q². ECT* Workshop: Precision Tests of Fundamental Physics with Light Mesons, Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
11. Preet L*. (2023). Understanding Hadronic Mass through Light Meson Structure at the EIC. Winter Nuclear and Particle Physics Conference, Banff, AB, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
12. Usman A*. (2023). Measurement of the $e+p \rightarrow e'+\pi^0+\Delta^0$ reaction at Jefferson Lab Hall C. ECT*-APCTP Joint Workshop: Exploring Resonance Structure with Transition GPDs, Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
13. Kay SJD*. (2023). The Electron-Ion Collider: The Quest to Make Sense of QCD. TRIUMF Seminar, Vancouver, BC, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
14. Heinrich N*. (2023). Update on GPD Factorization Validity Studies for Meson Production. APS Topical Group on Hadronic Physics Biennial Workshop, Minneapolis, MN, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
15. Postuma A*. (2023). From Spin to Structure: Beam Spin Asymmetry and the Strong Force. Canadian Association of Physicists Congress, Fredericton, NB, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
16. (2023). Probing Hadron Structure with Deep Exclusive Reactions at Halls A/C. Halls A/C/Summer Workshop, Jefferson Lab (hybrid), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

17. Usman A*. (2023). Charged Pion Electroproduction Reaction Studies at Jefferson Lab. Canadian Association of Physicists Congress, Fredericton, NB, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
18. Li WB, Pire, B, Cosyn W. (2022). Studying Color Transparency through u-Channel π^0 Electroproduction off a Nuclear Target. APS Division of Nuclear Physics Meeting, New Orleans, LA, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
19. (2022). Deep Exclusive π^- production using a transversely polarized ^3He target and the Solenoidal Large Intensity Device (SoLID). Canadian Association of Physicists Congress, Hamilton, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: Yes
20. (2022). Deep Exclusive Meson Production in Hall C with Upgraded JLab Beam. The Next Generation of 3D Imaging Workshop, Jefferson Lab, Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
21. (2022). Opportunities for Studies of Exclusive Processes with JLab20+. ECT* Workshop: Opportunities with JLab Energy and Luminosity Upgrade (hybrid), Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No
22. (2022). Pion and Kaon Form Factors from Deep Exclusive Meson Production at Jefferson Lab and EIC. Stony Brook University Center for Frontiers in Nuclear Science, Stony Brook, NY, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
23. (2022). Electron-Ion Collider -- A major new scientific facility to probe the heart of nuclear matter. Prairie Universities Physics Seminar Series (online), University of Winnipeg and University of Calgary, Winnipeg and Calgary, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
24. Heinrich N*. (2022). PionLT: Extraction of the Charged Pion Form Factor to High Q². Gordon Research Conference on Photonuclear Reactions, Holderness, NH, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
25. Kay SJD*, Trotta R. (2022). Studying meson structure at the EIC through the Sullivan process. Perceiving the Emergence of Hadronic Mass through AMBER@CERN workshop VII (online), Geneva, Switzerland
Main Audience: Researcher
Invited?: Yes, Keynote?: No
26. Usman A*. (2022). Measurement of Charged Pion Form Factor at Jefferson Lab. Canada-Cuba-America-Mexico (C2AM) Graduate Student Physics Conference (online), Saint Johns, NL, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
27. (2022). Measuring the Pion Form Factor via Deep Exclusive Electroproduction at JLab and EIC. Hadron Physics Online Forum (HAPOF), Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

28. Kay SJD*. (2022). Pion and Kaon Form Factor Measurements at the EIC. Canadian Association of Physicists Congress, McMaster University, Hamilton, ON, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
29. Kay SJD*. (2022). Pion and Kaon Form Factor Measurements at the EIC. APS Division of Nuclear Physics Meeting, New Orleans, LA, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
30. (2022). Deep exclusive pi- production using a transversely polarized 3He target and the Solenoidal Large Intensity Device (SoLID). Canadian Association of Physicists Congress, McMaster University, Hamilton, ON, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No
31. (2021). Deep Exclusive pi- Production using a Transversely Polarized 3He target and the SoLID Spectrometer. APS April Meeting (online), United States of America
Invited?: No, Keynote?: No
32. Kay SJD*. (2021). Experimental Advances in Pion and Kaon Structure Studies. Strong QCD from Hadron Structure Experiments IV (online), Nanjing, China
Main Audience: Researcher
Invited?: Yes, Keynote?: No
33. Kay SJD*. (2021). Meson Structure at the EIC. Workshop on Hadron Structure at High-Energy, High-Luminosity Facilities (online), Nanjing, China
Main Audience: Researcher
Invited?: Yes, Keynote?: No
34. (2020). Hall C Backward Angle Experimental Program. CLAS Mini-Workshop on large angle physics (online), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
35. (2020). Backward Exclusive omega Electroproduction from JLab 6 GeV Hall C. Jefferson Lab Backward-Angle (u-Channel) Physics Workshop (online), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
36. Ahmed Z*. (2020). Pion Form Factor from Exclusive pi+ Production at EIC. APS April Meeting (online), Washington, DC, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
37. Kay SJD*. (2020). Light Meson Form Factors from Exclusive Measurements. DOI: 10.5281/zenodo.4019443. Workshop on Pion and Kaon Structure Functions at the EIC (online), Stony Brook, NY, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
38. Kay SJD*. (2020). Backward Meson Electroproduction from JLab 12 GeV Hall C Kaon-LT Experiment. Jefferson Lab Backward-Angle (u-Channel) Physics Workshop (online), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

39. Li WB*. (2019). Exclusive Backward-Angle Meson Electroproduction -- Unique Access to u-channel Physics. APS Topical Group on Hadronic Physics Biennial Workshop, Denver, CO, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
40. Li WB*. (2019). Exclusive Backward-Angle Meson Electroproduction – Unique Access to u-channel Physics. Institut fuer Kernphysik, University of Mainz, Mainz, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
41. Li WB*. (2018). Backward Angle Omega Meson Electroproduction. Hall C Winter Workshop, Jefferson Lab, Newport News, VA, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
42. 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 of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
43. (2018). The experimental determination of the pion and kaon form factors and structure functions. American Physical Society April Meeting, Columbus, OH, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
44. Li WB*. (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
45. (2018). The Nucleon Polarizability Program at MAMI-A2. Catholic University of America Physics Seminar, Washington, DC, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
46. (2018). Deep Exclusive $p(e,e'\pi^+)n$ and $p(e,e'K^+)\Lambda$ Studies at Jefferson Lab. The George Washington University, this was also given at the University of Victoria (Victoria, BC) in 2017, Washington DC, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

Publications

Journal Articles

1. Afzal F, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*. (2024). First measurement using elliptically polarized photons of the double-polarization observable E for $\gamma p \rightarrow p\pi^0$ and $\gamma p \rightarrow n\pi^+$. Physical Review Letters. 132: 121902 1-7,.
Published
Refereed?: Yes
2. Achenbach P,, (2024). The Present and Future of QCD. Nuclear Physics A. 1047: 122874 1-111.
Published
Refereed?: Yes

3. Postuma AC*, ..., Heinrich N*, ..., Junaid M*, Kay SJD*, ..., Kumar V*, ... Usman A*. ... Ambrose R*., ... (2024). Regge and GPD Comparison of Beam Spin Asymmetry in Exclusive Pion Production. Physical Review Letters.
Submitted
Refereed?: Yes
4. Ahmed A*, Evans RS*, ..., Kay SJD*, ..., Preet L*, Usman A*. (2024). DEMPgen: Physics event generator for Deep Exclusive Meson Production at Jefferson Lab and the EIC. Computer Physics Communications.
Submitted
Refereed?: Yes
5. Bhatt H, ..., Ambrose R*, ..., Kay SJD*, ..., Kumar V*, ... (2024). Flavor Dependence of Charged Pion Fragmentation Functions. Physical Review Letters.
Submitted
Refereed?: Yes
6. Biswas D, ... Ahmed Z*, ..., Ambrose R*, ... Basnet S*., ... Evans R*., ... (2024). New Measurements of the Deuteron to Proton F_2 Structure Function Ratio. Physical Review Letters.
Submitted
Refereed?: Yes
7. Accardi A, ... (2024). Strong Interaction Physics at the Luminosity Frontier with 22 GeV electrons at Jefferson Lab. Journal of Physics G.
In Press
Refereed?: Yes
8. Ali S, ..., Ambrose GR*, ..., Hamdi A*, Heinrich N*, ..., Junaid M*, ..., Kay SJD*, Kumar V*, ..., Li WB*, ..., Usman A*, ... (2024). The SHMS 11 GeV/c Spectrometer in Hall C at Jefferson Lab. Nuclear Instruments and Methods A.
Submitted
Refereed?: Yes
9. Mornacchi E, ..., Martel PP*, ..., Paudyal D*, ... (2024). Evaluation of the E2/M1 ratio in the N \rightarrow $\Delta(1232)$ transition from the $\gamma p \rightarrow p\pi^0$ reaction. Physical Review C. 109: 055201 1-15.
Published
Refereed?: Yes
10. Bashkanov M, ..., Kay SJD*, ..., Martel PP*, ..., Paudyal D*, ... (2023). First measurement of the polarization transfer C_n^x in deuteron photodisintegration. Physics Letters. B 844: 138080 1-6.
Published
Refereed?: Yes
11. Bylinkin A, ..., Kay SJD*, ..., Usman A*, ... (2023). Detector Requirements and Simulation Results for the EIC Exclusive, Diffractive and Tagging Physics Program using the ECCE Detector Concept. Nuclear Instruments and Methods. A 1052: 168238 1-40.
Published
Refereed?: Yes
12. Adhikari S, ... (2023). Measurement of the J/psi photoproduction cross section over the full near-threshold kinematic region. Physical Review C. 108: 025201 1-14.
Published
Refereed?: Yes
13. Bhetuwal D, ..., Ahmed Z*, ..., Ambrose R*, ..., Basnet S*, ..., Evans R*, ... (2023). Constraints on the onset of Color Transparency from quasi-elastic $^{12}\text{C}(e,e'p)$ scattering up to $Q^2=14.2$ (GeV/c) 2 . Physical Review C. 108: 025203 1-13.
Published
Refereed?: Yes

14. Li X, ..., Kay SJD*, ..., Usman A*. (2023). Exclusive J/ψ detection and physics with ECCE. Nuclear Instruments and Methods. A 1048: 167956 1-10.
Published
Refereed?: Yes
15. Burkert VD, ... (2023). Precision Studies of QCD in the Low Energy Domain of the EIC. Progress in Particle and Nuclear Physics. 131: 104032 1-74.
Published
Refereed?: Yes
16. Seidl R, ..., Kay SJD*, ..., Usman A*. (2023). ECCE sensitivity studies for single hadron transverse single spin asymmetry measurements. Nuclear Instruments and Methods. A 1049: 168017 1-18.
Published
Refereed?: Yes
17. Seidl R, ..., Kay SJD*, ..., Usman A*. (2023). ECCE unpolarized TMD measurements. Nuclear Instruments and Methods. A 1055: 168458 1-11.
Published
Refereed?: Yes
18. Fanelli C, ..., Kay SJD*, ... (2023). AI-assisted optimization of the ECCE tracking system at the Electron-Ion Collider. Nuclear Instruments and Methods. A 1047: 167748 1-14.
Published
Refereed?: Yes
19. Adhikari S, ... (2023). Measurement of Spin-Density Matrix Elements in $\rho(770)$ production with a linearly polarized photon beam at $E_{\gamma}=8.2-8.8$ GeV. Physical Review C. 108: 055204 1-15.
Published
Refereed?: Yes
20. Arrington J, ... (2023). The Solenoidal Large Intensity Device (SoLID) for JLab 12 GeV. Journal of Physics G. 50: 110501 1-58.
Published
Refereed?: Yes
21. Zhang J-L, ..., Kay SJD*, ..., Usman A*. (2023). Search for $e \rightarrow \tau$ charged lepton flavor violation at the EIC with the ECCE detector. Nuclear Instruments and Methods. A 1053: 168276 1-11.
Published
Refereed?: Yes
22. Karki A, ..., Ahmed Z*, ... Ambrose R*, ..., Basnet S*, ... (2023). First measurement of the EMC Effect in ^{10}B and ^{11}B . Physical Review C. 108: 035201 1-7.
Published
Refereed?: Yes
23. Ghosal D, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*. (2023). Helicity dependent cross sections for the photoproduction of $\pi^0\pi^{\pm}$ pairs from quasi-free nucleons. Physics Letters B. 837: 138273 1-8.
Published
Refereed?: Yes
24. Van Hulse C, ..., Kay SJD*, ..., Usman A*. (2023). Evaluation of longitudinal double-spin asymmetry measurements in semi-inclusive deep-inelastic scattering from the proton for the ECCE detector design. Nuclear Instruments and Methods. A 1056: 168563 1-12.
Published
Refereed?: Yes
25. Sharma S, ... (2022). High-precision half-life determination of ^{14}O via direct beta counting. European Physical Journal A. 58: 83 1-8.
Published
Refereed?: Yes

26. Adhikari S, ... (2022). Search for photoproduction of axion-like particles at GlueX. *Physical Review D*. 105: 052007 1-8.
Published
Refereed?: Yes
27. Cividini F, ..., Ahmed Z*, ..., Kay SJD*, ..., Martel PP*, ..., Paudyal D*, ... (2022). Measurement of the helicity dependence for single π^0 photoproduction from the deuteron. *European Physical Journal A*. 58(113 1-23)
Published
Refereed?: Yes
28. Adhikari S, ... (2022). Measurement of Spin-Density Matrix Elements in Lambda(1520) Photoproduction at 8.2 to 8.8 GeV. *Physical Review C*. 105: 035201 1-10.
Published
Refereed?: Yes
29. Christy ME, ..., Ahmed Z*, ..., (2022). Form Factors and Two-Photon Exchange in High-Energy Elastic Electron-Proton Scattering. *Physical Review Letters*. 128: 102002 1-7.
Published
Refereed?: Yes
30. Bock F, ..., Kay SJD*, ... (2022). Design and simulated performance of calorimetry systems for the ECCE detector at the Electron-Ion Collider. *Nuclear Instruments and Methods. A* 1055: 168484 1-17.
Published
Refereed?: Yes
31. Bernauer JC, ..., Kay SJD*, ... (2022). Scientific computing plan for the ECCE detector at the Electron-Ion Collider. *Nuclear Instruments and Methods. A* 1047: 167589 1-11.
Published
Refereed?: Yes
32. Bashkanov M, ..., Kay SJD*, ..., Ahmed Z, ..., Paudyal D, ... (2022). Neutron polarization transfer C_x' in π^+ photoproduction off proton. *Physics Letters B*. 847: 138283 1-7.
Published
Refereed?: Yes
33. Abdul Khalek R, ..., Kay SJD*, ... (Electron-Ion Collider User Group). (2022). Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Report. *Nuclear Physics A*. 1026: 122447 1-902.
Published
Refereed?: Yes
34. Mornacchi E, Martel PP*, ..., Ahmed Z*, ..., Paudyal D*, ... (2022). Measurement of Compton scattering at MAMI for the extraction of the electric and magnetic polarizabilities of the proton. *Physical Review Letters*. 128: 132503 1-6.
Published
Refereed?: Yes
35. Li R, ..., Heinrich N*, ..., Kay SJD*, ..., Kumar V*, ... (2022). Measured proton electromagnetic structure deviates from theoretical predictions. *Nature* <https://doi.org/10.1038/s41586-022-05248-1>.
Published
Refereed?: Yes
36. Georges F, ..., Ahmed Z*, ..., Li WB*, ... (2022). Deeply virtual Compton scattering cross section at high Bjorken x_B . *Physical Review Letters*. 128: 252002 1-7.
Published
Refereed?: Yes

37. Adhikari S, ... (2021). Measurement of beam asymmetry for $\pi^- \Delta^{++}$ photoproduction on the proton at $E_{\gamma}=8.5$ GeV. Physical Review C. 103: L022201 1-7.
Published
Refereed?: Yes
38. Dlamini M, ..., Ahmed Z*, ..., Li W*, (2021). Deep exclusive electroproduction of π^0 at high Q^2 in the quark valence regime. Physical Review Letters. 127: 152301 1-7.
Published
Refereed?: Yes
39. Mullen C, ..., Kay SJD*, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2021). Single π^0 production off neutrons bound in deuteron with linearly polarized photons. European Physical Journal A. 57: 205 1-11.
Published
Refereed?: Yes
40. Ayerbe Gayoso C, ... Kay SJD*, ... (2021). Progress and Opportunities in Backward angle (u-channel) Physics. European Physical Journal A. 57: 342 1-28.
Published
Refereed?: Yes
41. Bhetuwal D, ..., Ahmed Z*, ..., Ambrose R*, ..., Basnet S*, ..., Evans R*, ... (2021). Ruling out color transparency in quasi-elastic $^{12}\text{C}(e,e'p)$ up to Q^2 of 14.2 (GeV/c) 2 . Physical Review Letters. 126: 082301 1-6.
Published
Refereed?: Yes
42. Arrington J, ..., Kay SJD*, ... (2021). Revealing the structure of light pseudoscalar mesons at the Electron-Ion Collider. Journal of Physics G. 48: 075106 1-47.
Published
Refereed?: Yes
43. Dlamini M, ..., Ahmed Z*, ..., Li WB*, ... (2021). Deep exclusive electroproduction of π^0 at high Q^2 in the valence quark regime. Physical Review Letters. 127: 152301 1-7.
Published
Refereed?: Yes
44. Adhikari S, ... (2021). The GlueX Beamline and Detector. Nuclear Instruments and Methods A. 987: 164807 1-39.
Published
Refereed?: Yes
45. Benali M, ..., Ahmed Z*, ... (2020). Deeply Virtual Compton Scattering off the Neutron. Nature Physics. 16: 191-198.
Published
Refereed?: Yes
46. Dieterle M, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2020). Helicity-dependent cross sections for the photoproduction of π^0 pairs from nucleons. Physical Review Letters. 125: 062001 1-6.
Published
Refereed?: Yes
47. Paudyal D*, ..., Martel PP*, (2020). Extracting the Spin Polarizabilities of the proton by measurement of Compton double-polarization observables. Physical Review C. 102: 035205 1-7.
Published
Refereed?: Yes
48. Adhikari S, (2020). Measurement of the photon beam asymmetry in $\gamma p \rightarrow K^+ \Sigma^0$ at $E_{\gamma}=8.5$ GeV. Physical Review C. 101: 065206 1-7.
Published
Refereed?: Yes

49. Yero C, ..., Ahmed Z*, ..., Ambrose R*, ..., Basnet B*, ..., Evans R*, ... (2020). Probing the Deuteron at Very Large Internal Momenta. *Physical Review Letters*. 125: 262501 1-6.
Published
Refereed?: Yes
50. Bashkanov M, ..., Kay SJD*, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, (2020). Signatures of the $d^*(2380)$ Hexaquark in $d(\gamma, p\bar{\nu}_e n)$. *Physical Review Letters*. 124: 132001 1-6.
Published
Refereed?: Yes
51. Li W*, ..., Xu C*, ... (2019). Unique Access to u-channel Physics: Exclusive Backward-Angle Omega Meson Electroproduction. *Physical Review Letters*. 123: 182501 1-6.
Published
Refereed?: Yes
52. A. Ali, ... (2019). First measurement of near-threshold J/ψ exclusive photoproduction off of the proton. *Physical Review Letters*. 123: 072001 1-6.
Published
Refereed?: Yes
53. Briscoe WJ, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2019). Cross section for $\gamma n \rightarrow \pi^0 n$ measured at the Mainz A2 experiment. *Physical Review C*. 100: 065205 1-13.
Published
Refereed?: Yes
54. Aguilar AC, ..., Ahmed Z*, ... (2019). Pion and Kaon Structure at the Electron-Ion Collider. *European Physical Journal A*. 55: 190 1-15.
Published
Refereed?: Yes
55. 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
56. Adhikari S, ... (2019). Beam asymmetry Σ for the photoproduction of η and η' mesons at $E_\gamma=8.8$ GeV. *Physical Review C Rapid Communications*. 100: 052201(R) 1-7.
Published
Refereed?: Yes
57. 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. *European Physical Journal A*. 55: 202 1-17.
Published
Refereed?: Yes
58. Sokhoyan V, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, (2019). Measurement of the beam-helicity asymmetry in photoproduction of $\pi^0 \eta$ pairs on carbon, aluminum and lead. *Physics Letters B*. 802: 135243 1-7.
Published
Refereed?: Yes
59. Armstrong W, ..., Butuceanu C*, ... (2019). Revealing Color Forces with Transverse Polarized Electron Scattering. *Physical Review Letters*. 122: 022002 1-7.
Published
Refereed?: Yes

60. Basnet S*, Huber GM, Li WB*, ..., Xu C*, ... (2019). Exclusive π^+ electroproduction off the proton from low to high $-t$. Physical Review C. 100: 065204 1-8.
Published
Refereed?: Yes
61. 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
62. 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
63. 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
64. 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 GeV². Nuclear Instruments and Methods in Physics Research. A910: 54-79.
Published
Refereed?: Yes
65. Albayrak I, ..., Butuceanu C*, ... (2018). Measurements of Non-Singlet Moments of Nucleon Structure Functions and Comparison to Lattice QCD for $Q^2=4$ GeV². Physical Review Letters. 123: 022501 1-7.
Published
Refereed?: Yes
66. Liyanage A, ..., Butuceanu C*, ... (2018). Proton Form Factor Ratio $m_{\mu p} G_{Ep}/G_{Mp}$ from Double Spin Asymmetry. Physical Review C. 101: 035206 1-12.
Published
Refereed?: Yes
67. Adlarson P, ..., Ahmed Z*, ..., Martel PP*, ... Paudyal D*, ... (2018). Measurement of the decay $\eta' \rightarrow \pi^0\eta$ at MAMI. Physical Review D. 98: 012001 1-15.
Published
Refereed?: Yes
68. 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
69. Tvaskis V, ..., Xu C*, ... (2018). Measurements of the Separated Longitudinal Structure Function F_L from Hydrogen and Deuterium Targets at Low Q^2 . Physical Review C. 97: 054204 1-11.
Published
Refereed?: Yes
70. 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

71. 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. 97: 055212 1-15.
Published
Refereed?: Yes

Reports

1. Atac H, ... (2023). Measurement of the Generalized Polarizabilities of the Proton in Virtual Compton Scattering, arXiv:2308.07197 [nucl-ex]. 25. Thomas Jefferson National Accelerator Facility.
2. Li X, ..., Kay SJD*, ...Usman A*, ... (2022). Open heavy flavor studies for the ECCE detector at the Electron Ion Collider, arXiv: 2207.10632. 11. ECCE Collaboration.
3. Benesch J, ... (2022). Jefferson Lab Hall C: Precision Physics at the Luminosity Frontier, arXiv:2209.11838 [nucl-ex]. 66. Thomas Jefferson National Accelerator Facility.
4. Li WB, Stevens J. (2022). Accessing DEMP and DVCS at Backward Angles above the Resonance Region, arXiv:2205.11763 [nucl-ex]. 32. Thomas Jefferson National Accelerator Facility.
5. Garni S, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2022). Target and beam-target asymmetries for the $\gamma p \rightarrow \pi^0 \pi^0 p$ reaction, arXiv:2207.14079. 17. Mainz Microtron (MAMI).
6. Adkins JK, ..., Kay SJD*, ..., Usman A*, ... (2022). Design of the ECCE Detector for the Electron Ion Collider, arXiv: 2209.02580. 32. ECCE Collaboration.
7. Adhikari S, ... (2020). Strange Hadron Spectroscopy with a Secondary K_L Beam in Hall D, arXiv: 2008.08215 [hep-ex]. 103. Thomas Jefferson National Accelerator Facility.
8. Li WB, Huber GM, Stevens J. (2020). Backward-angle Exclusive π^0 Production above the Resonance Region. arXiv:2008.10768 [nucl-ex]. 66. Thomas Jefferson National Accelerator Facility.

Conference Publications

1. Huber GM, Li WB, Cosyn W, Pire B. (2022). u-Channel Color Transparency Observables. MDPI Physics. Jefferson Lab Color Transparency Workshop (online), Newport News, United States of America (451-461)
Conference Date: 2021/6
Paper
Published
Refereed?: Yes, Invited?: No