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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=3]

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 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 - 385,000 Portion of Funding Received - 0 Funding Competitive?: Yes Co-applicant : Gericke, M; Grinyer, G; Jeon, Sangyong; Kanungo, R; Martin, J; Ruiz, C; Principal Applicant : Hackman, G
2023/4 - 2025/3 Co-applicant	Canadian Participation at the Electron-Ion Collider (EIC), Grant 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 Co-applicant : Hornidge D; Longo S; Papandreou Z; Principal Applicant : Deconinck W

Completed [n=7]

2021/4 - 2023/3 Co-investigator	Canadian Participation at the Electron-Ion Collider (EIC), Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subatomic Physics Discovery Project Grant
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Total Funding - 147,000
 Portion of Funding Received - 39,000
 Funding Competitive?: Yes
 Co-applicant : Hornidge, D; Papandreou, Z;
 Principal Applicant : Deconinck, W

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 - 30,000
 Funding Competitive?: Yes

Co-investigator : Sarty, Adam;

Principal Investigator : 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

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 - 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

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

Under Review [n=1]

2024/1 - 2027/12

Principal Applicant

Solenoidal Large Intensity Device (SoLID) Heavy Gas Cherenkov Detector, Grant

Funding Sources:

Canada Foundation for Innovation (CFI)

Innovation Fund 2023 Competition

Total Funding - 101,900

Portion of Funding Received - 101,900

Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's [n=2]

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 Δ^0 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: Undergraduate Student

Bachelor's Honours [n=4]

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 π^+ electroproduction data using the CKY Regge model

Present Position: Graduate Student, University of Manitoba

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

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

Master's Thesis [n=4]

2021/12 - 2023/12 Preet, Love (In Progress) , University of Regina
Principal Supervisor Student Degree Expected Date: 2023/12
Thesis/Project Title: Deep Exclusive Meson Production simulations for the Electron-Ion Collider
Present Position: MSc Student, University of Regina

2016/9 - 2019/8 Evans, Rory (Completed) , University of Regina
Principal Supervisor 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 Ambrose, Ryan (Completed) , University of Regina
Principal Supervisor Thesis/Project Title: SHMS Heavy Gas Cherenkov detector commissioning
Present Position: PhD Student, Dalhousie University

2015/9 - 2018/8 Basnet, Samip (Completed) , University of Regina
Principal Supervisor 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=7]

2022/9 - 2024/8 Postuma, Alicia (In Progress) , University of Regina
Principal Supervisor Student Degree Expected Date: 2026/8
Thesis/Project Title: Beam spin asymmetries in the deep exclusive pion and kaon electroproduction
Present Position: Graduate Student

2020/11 - 2026/4 Junaid, Muhammad (In Progress) , University of Regina
Principal Supervisor Thesis/Project Title: L/T-separated ratios in Deep Exclusive pi-/pi+ Production from Deuterium Target. SoLID Heavy Gas Cherenkov detector prototyping for Jefferson Lab.
Present Position: PhD Student, University of Regina

2020/9 - 2026/8 Heinrich, Nathan (In Progress) , University of Regina
Principal Supervisor Thesis/Project Title: Measurement of the Charged Pion Form Factor to High Q². SoLID Heavy Gas Cherenkov detector prototyping for Jefferson Lab.
Present Position: PhD Student, University of Regina

2019/7 - 2025/4 Usman, Ali (In Progress) , University of Regina
Principal Supervisor Student Degree Expected Date: 2025/4
Thesis/Project Title: Exclusive p(e,e'pi⁺)n and p(e,e'pi⁺)Delta0 L/T-separated cross sections up to Q²=5.5 GeV². SoLID Heavy Gas Cherenkov detector prototyping for Jefferson Lab.
Present Position: PhD Student, University of Regina

- 2018/9 - 2024/4
Principal Supervisor Kumar, Vijay (In Progress) , University of Regina
Student Degree Expected Date: 2024/6
Thesis/Project Title: Exclusive K^+ and π^+ form factors from electroproduction method at $Q^2 < 0.5 \text{ GeV}^2$ and comparison to exact elastic form factors from CERN-SPS. SoLID Heavy Gas Cherenkov detector prototyping for Jefferson Lab.
Present Position: PhD student, University of Regina
- 2013/1 - 2017/10
Principal Supervisor Li, Wenliang (Bill) (Completed) , University of Regina
Thesis/Project Title: Exclusive Backward-Angle Omega Meson Electroproduction
Present Position: PDF, Stony Brook University
- 2012/8 - 2017/8
Co-Supervisor Paudyal, Dilli (Completed) , University of Regina
Thesis/Project Title: Spin Polarizability of a Proton using Polarized Photon Beam and Polarized Butanol Target at Mainz Microtron
Present Position: Research Programmer Analyst, Canadian Light Source

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 Associate, 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, Canadian Light Source
- 2013/10 - 2020/3
Co-Supervisor Martel, Philippe, 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, 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

Event Administration

- 2023/8 - 2024/6 Program Committee, Nucleus Nucleus Collision Conference (NN2024), Whistler BC, Conference, 2024/6 - 2024/6
- 2022/10 - 2023/5 Organizing 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
2017/10 - 2017/10	Referee, Physics International, Journal
2014/7 - 2017/6	Regional Editor, Physics International, Journal

Organizational Review Activities

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
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

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

1. 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
2. (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
3. (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
4. 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
5. 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
6. (2023). The Electron-Ion Collider: The Quest to Make Sense of QCD. TRIUMF Seminar, Vancouver, BC, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
7. 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
8. 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
9. (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
10. 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
11. 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

12. (2022). Deep Exclusive pi- 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
13. (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
14. (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
15. (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
16. (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
17. Heinrich N*. (2022). PionLT: Extraction of the Charged Pion Form Factor to High Q^2 . Gordon Research Conference on Photonuclear Reactions, Holderness, NH, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No
18. 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
19. 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
20. (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
21. 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
22. 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

23. (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
24. (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
25. 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
26. 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
27. (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
28. (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
29. 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
30. 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
31. 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
32. 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
33. 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

34. 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
35. 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
36. (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
37. 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
38. (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
39. (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
40. (2017). New Perspectives on the Charged Pion Form Factor. Canadian Association of Physicists Congress, Kingston, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
41. Li WB*. (2017). u-Channel omega Meson Production from the Fpi-2 Experiment. Jefferson Lab Hall C Winter Workshop, Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No
42. 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 of America
Main Audience: Decision Maker
Invited?: Yes, Keynote?: No
43. Basnet S*. (2017). π^+ Electroproduction at High $-t$. Canadian Association of Physicists Congress, Kingston, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No
44. (2017). Transverse Meson Structure from Exclusive Measurements. Workshop on Pion and Kaon Structure at an Electron Ion Collider, Argonne, IL, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

Publications

Journal Articles

1. 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
2. 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
3. Adhikari S, ... (2023). Measurement of the J/ψ photoproduction cross section over the full near-threshold kinematic region. Physical Review C. 108: 025201 1-14.
Published
Refereed?: Yes
4. 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
5. Afzal F, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*. (2023). First measurement of the double-polarization observable E for $\gamma p \rightarrow p p_i^0$ and $\gamma p \rightarrow n p_i^+$ using elliptically polarized photons. Physical Review Letters.
Submitted
Refereed?: Yes
6. 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
7. 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
8. 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
9. Adkins JK, ..., Kay SJD*, ..., Usman A*. (2023). Design of the ECCE Detector for the Electron Ion Collider. Nuclear Instruments and Methods.
Submitted
Refereed?: Yes
10. Seidl R, ..., Kay SJD*, ..., Usman A*. (2023). ECCE unpolarized TMD measurements. Nuclear Instruments and Methods. A 1055: 168458 1-11.
Published
Refereed?: Yes

11. 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
12. 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.
Submitted
Refereed?: Yes
13. Arrington J, ... (2023). The Solenoidal Large Intensity Device (SoLID) for JLab 12 GeV. Journal of Physics G.
In Press
Refereed?: Yes
14. Li X, ..., Kay SJD*, ..., Usman A*. (2023). Open heavy flavor studies for the ECCE detector at the Electron Ion Collider. Nuclear Instruments and Methods.
Submitted
Refereed?: Yes
15. 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
16. 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
17. 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.
Submitted
Refereed?: Yes
18. Accardi A, ... (2023). Strong Interaction Physics at the Luminosity Frontier with 22 GeV electrons at Jefferson Lab. Journal of Physics G.
Submitted
Refereed?: Yes
19. 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
20. 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
21. Adhikari S, ... (2022). Search for photoproduction of axion-like particles at GlueX. Physical Review D. 105: 052007 1-8.
Published
Refereed?: Yes

22. 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
23. 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
24. 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
25. 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
26. 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
27. Bashkanov M, ..., Kay SJD*, ..., Ahmed Z, ..., Paudyal D, ... (2022). Neutron polarization transfer $C_{x'}$ in π^+ photoproduction off proton. *Physics Letters B*.
Submitted
Refereed?: Yes
28. 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
29. Garmi S, ..., Ahmed Z*, ..., Kay SJD*, ..., Martel PP*, ..., Paudyal D*, ... (2022). Target and beam-target asymmetries for the $\gamma p \rightarrow \pi^0 \pi^0 p$ reaction. *European Physical Journal A*.
Submitted
Refereed?: Yes
30. 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
31. 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
32. 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

33. 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
34. 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
35. 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
36. 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
37. 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
38. 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
39. 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
40. Adhikari S, ... (2021). The GlueX Beamline and Detector. Nuclear Instruments and Methods A. 987: 164807 1-39.
Published
Refereed?: Yes
41. Benali M, ..., Ahmed Z*, ... (2020). Deeply Virtual Compton Scattering off the Neutron. Nature Physics. 16: 191-198.
Published
Refereed?: Yes
42. 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
43. 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
44. 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

45. 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
46. 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
47. 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
48. 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
49. 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
50. 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
51. 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
52. 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
53. 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
54. 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
55. Armstrong W, ..., Butuceanu C*, ... (2019). Revealing Color Forces with Transverse Polarized Electron Scattering. *Physical Review Letters*. 122: 022002 1-7.
Published
Refereed?: Yes

56. 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
57. 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
58. 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
59. 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
60. 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
61. Albayrak I, ..., Butuceanu C*, ... (2018). Measurements of Non-Singlet Moments of Nucleon Structure Functions and Comparison to Lattice QCD for $Q^2=4$ GeV 2 . Physical Review Letters. 123: 022501 1-7.
Published
Refereed?: Yes
62. 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
63. 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
64. 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
65. 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
66. 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

67. 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
68. Kasharevov VL, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). Study of eta and etaprime Photoproduction at MAMI. Physical Review Letters. 118: 212001 1-6.
Published
Refereed?: Yes
69. 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
70. Al Ghouh H, ... (2017). Measurement of the beam asymmetry Sigma for π^0 and eta photoproduction on the proton at $E_\gamma=9$ GeV. Physical Review C. 95: 042201(R) 1-6.
Published
Refereed?: Yes
71. 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
72. 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
73. Sokhoyan V, ..., Martel PP*, ..., Middleton DG*, ..., Paudyal D*, ... (2017). Determination of the scalar polarizabilities of the proton using beam asymmetry Sigma₃ in Compton scattering. European Physical Journal A. 53: 14 1-6.
Published
Refereed?: Yes
74. Adlarson P, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). Measurement of the $\omega \rightarrow \pi^0 e^+e^-$ and $\eta \rightarrow e^+e^- \gamma$ Dalitz decays with the A2 setup at MAMI. Physical Review C. 95: 035208 1-18.
Published
Refereed?: Yes
75. Dieterle M., ... Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). First measurement of the polarization observable E and helicity-dependent cross sections in single π^0 photoproduction from quasi-free nucleons. Physics Letters B. 770: 523-531.
Published
Refereed?: Yes
76. Witthauer L, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2017). Helicity-dependent cross sections and double-polarization observable E in eta photoproduction from quasifree protons and neutrons. Physical Review C. 95: 055201 1-20.
Published
Refereed?: Yes
77. Albayrak I, ..., Butucanu, C*, ... (2017). Non-Singlet Moments of the Nucleon Extracted from Longitudinal-Transverse Separations of Deuteron and Proton Cross Sections for $Q^2=4$ GeV² and Comparison to Lattice QCD. Physical Review Letters.
Submitted
Refereed?: Yes

Reports

1. Achenbach P, ... (2023). The Present and Future of QCD: QCD Town Meeting White Paper -- An Input to the 2023 NSAC Long Range Plan, arXiv:2303.02579 [hep-ph]. 214. Nuclear Science Advisory Committee.
2. Benesch J, ... (2022). Jefferson Lab Hall C: Precision Physics at the Luminosity Frontier, arXiv:2209.11838 [nucl-ex]. 66. Thomas Jefferson National Accelerator Facility.
3. 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.
4. 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.
5. 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