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Dr. Garth M. Huber

Correspondence language: English

Contact Information

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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

2026/9
2026 Faculty of Science Award for Research Excellence
The University of Regina
Prize / Award
Recognition of outstanding contributions to the advancement of knowledge

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

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

2013/5 - 2026/6
Executive Director
Canadian Institute of Nuclear Physics

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=5]

2026/4 - 2031/3
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 - 850,000
Portion of Funding Received - 850,000
Funding Competitive?: Yes

2025/12 - 2030/12
Co-applicant
Enabling High Intensity Collisions and High Granularity Detectors for the Electron-Ion Collider, Grant

Funding Sources:
Canada Foundation for Innovation (CFI)
Innovation Fund 2025 Competition
Total Funding - 5,336,759
Portion of Funding Received - 1,800,000
Funding Competitive?: Yes
Research BC
CFI-IF Provincial Support
Total Funding - 750,000
Portion of Funding Received - 0
Funding Competitive?: Yes
Innovation Saskatchewan
CFI-IF Provincial Support
Total Funding - 1,061,000
Portion of Funding Received - 1,061,000
Funding Competitive?: Yes
Research NB

CFI-IF Provincial Support
Total Funding - 400,000
Portion of Funding Received - 0
Funding Competitive?: Yes
Research Manitoba
CFI-IF Provincial Support
Total Funding - 2,066,759
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-applicant : Gericke M; Hornidge D; Junginger T; Kester O; Laxdal B; Longo S; Mammei J; Teymurazyan A;

Principal Applicant : Deconinck W; Papandreou Z

2025/1 - 2030/11
Principal Applicant

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

Funding Sources:
Innovation Saskatchewan
CFI-IF Provincial Support
Total Funding - 300,000
Portion of Funding Received - 300,000
Funding Competitive?: Yes
University of Regina
CFI-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

2025/4 - 2030/3
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 - 446,000
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-applicant : Caballero Suarez, O; Grinyer G; Kanungo, R; Mammei R; Ruiz C;

Principal Applicant : Hackman, G

2025/4 - 2027/3
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 - 370,000
Portion of Funding Received - 56,860
Funding Competitive?: Yes

Co-investigator : Gericke M; Hornidge D; Junginger T; Kester O; Laxdal R; Longo S; Mammei J; Papandreou Z; Teymurazyan A;

Principal Investigator : Deconinck W

Completed [n=7]

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

2021/4 - 2023/3
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 - 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

Under Review [n=1]

2027/4 - 2029/3
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 - 908,244
Portion of Funding Received - 242,250
Funding Competitive?: Yes

Co-applicant : Gericke M; Hornidge D; Junginger T; Kester O; Laxdal B;

Principal Applicant : Deconinck W

Student/Postdoctoral Supervision

Bachelor's [n=3]

2024/5 - 2024/8
Principal Supervisor

Sullivan, Zach (Completed) , University of Regina
Thesis/Project Title: Rate dependent detector studies for the PionLT experiment at Jefferson Lab
Present Position: Undergraduate student

2023/4 - 2023/8
Principal Supervisor

Switzer, Portia (Completed) , University of Winnipeg
Thesis/Project Title: Beam spin asymmetry analysis for the Delta0pi+ final state from KaonLT data
Present Position: Graduate student, University of Saskatchewan

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]

2026/5 - 2026/8
Principal Supervisor
Yadlowski, Dex (In Progress) , University of Regina
Student Degree Expected Date: 2028/5
Thesis/Project Title: Feasibility studies for u-channel Deeply Virtual Compton Scattering experiments in Hall C of Jefferson Lab
Present Position: Undergraduate Student

2025/9 - 2026/4
Principal Supervisor
Pepper, Emily (In Progress) , University of Regina
Student Degree Expected Date: 2026/5
Thesis/Project Title: Beam spin asymmetries for the p(e,e'pi+)n reaction
Present Position: Undergraduate Student

2025/5 - 2025/12
Principal Supervisor
Zhenchuk, Ivan (In Progress) , University of Regina
Student Degree Expected Date: 2027/5
Thesis/Project Title: Beam spin asymmetries for the p(e,e'K+)Lambda reaction
Present Position: Undergraduate student

Master's Thesis [n=2]

2026/9 - 2026/9
Principal Supervisor
Chandra, Fernando (In Progress) , University of Regina
Student Degree Expected Date: 2028/12
Thesis/Project Title: Studies of deep exclusive pion production in Hall C of Jefferson Lab
Present Position: M.Sc. student

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 Small Modular Nuclear Reactor Engineering

Doctorate [n=7]

2026/9 - 2030/12
Principal Supervisor
Rathi, Abhas (In Progress) , University of Regina
Student Degree Expected Date: 2030/12
Thesis/Project Title: Deep Exclusive Meson Production at the EIC and Jefferson Lab
Present Position: Graduate student

2025/9 - 2029/8
Principal Supervisor
Sadoun, Nermin (In Progress) , University of Regina
Student Degree Expected Date: 2029/8
Thesis/Project Title: L/T-separated π^-/π^+ ratios over a wide Q^2 range from Jefferson Lab
Present Position: PhD student, University of Regina

2022/9 - 2028/8
Principal Supervisor
Postuma, Alicia (In Progress) , University of Regina
Student Degree Expected Date: 2028/8
Thesis/Project Title: Beam spin asymmetries in the deep exclusive meson electroproduction. Started as a MSc student in Sept 2022, fast tracked to PhD in May 2023.
Present Position: Graduate Student

2021/1 - 2026/12
Principal Supervisor
Junaid, Muhammad (In Progress) , University of Regina
Student Degree Expected Date: 2026/10
Thesis/Project Title: Pion Electromagnetic Form Factor to High Q^2
Present Position: PhD Student, University of Regina

2020/9 - 2027/4 Principal Supervisor	Heinrich, Nathan (In Progress) , University of Regina Student Degree Expected Date: 2027/4 Thesis/Project Title: Scaling studies of the L/T-separated deep exclusive π^+ electro-production reaction. Started as a MSc student September 2020, fast tracked to PhD in June 2021 Present Position: PhD Student, University of Regina
2019/7 - 2025/5 Principal Supervisor	Usman, Ali (Completed) , University of Regina Thesis/Project Title: The study of exclusive pion electroproduction reaction from Kaon-LT experiment at Jefferson Lab Hall C Present Position: Natural Sciences Research Grant Officer, University of Regina
2018/9 - 2024/8 Principal Supervisor	Kumar, Vijay (Completed) , University of Regina Thesis/Project Title: Measurement of the pion exclusive electroproduction cross-section in the E12-19-006 experiment in Hall-C at Jefferson Lab Present Position: PDF

Post-doctorate [n=4]

2024/9 - 2026/3 Principal Supervisor	Kumar, Vijay (Completed) , University of Regina Thesis/Project Title: Low Q^2 Pion data analysis Present Position: PDF
2023/8 - 2027/2 Principal Supervisor	Hamdi, Abdennacer (In Progress) , University of Regina Thesis/Project Title: Physics analysis of Low Q^2 data from the KaonLT and experiment at Jefferson Lab, and detector simulations for the Electron-Ion Collider Present Position: Post-doctoral Fellow, University of Regina
2018/8 - 2023/5 Principal Supervisor	Kay, Stephen (Completed) , 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
2013/10 - 2020/3 Co-Supervisor	Martel, Philippe (Completed) , Mt. Allison University/JGU Mainz Thesis/Project Title: Proton Spin Polarizabilities experiments at MAMI Present Position: Software Engineer, Stryker

Research Associate [n=1]

2024/1 - 2025/3 Principal Supervisor	Preet, Love (Completed) , University of Regina Thesis/Project Title: Feasibility studies of Deep Exclusive Meson Production at the Electron-Ion Collider Present Position: Research Associate, University of Regina Small Modular Nuclear Reactor Engineering

Event Administration

2024/7 - 2027/6	Coordinating Committee, Hall C Collaboration, responsible for organization of two workshops per year, each January and June., Workshop, 2025/1 - 2027/6
2026/7 - 2026/10	Program Committee, Hadronic physics at the high luminosity frontier, Conference, 2026/10 - 2026/10
2024/4 - 2026/4	Program Committee, American Physical Society Divison 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

Editorial Activities

2017/7 - 2027/6	Editorial Board Member, Particles (MDPI), Journal
2026/3 - 2026/6	Referee, Physics Letters B, Journal
2026/3 - 2026/5	Referee, Particles (MDPI), Journal
2025/3 - 2025/5	Referee, Physics Letters B, 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

Organizational Review Activities

2026/7 - 2026/7	Referee, U.S. Department of Energy Office of Science Graduate Student Research (SCGSR) Proposal Review
2026/3 - 2026/4	Referee, U.S. Department of Energy Office of Science Proposal Review
2026/3 - 2026/4	Referee, Jefferson Lab User's Organization Annual PhD Thesis Competition Review Committee Member
2025/12 - 2026/1	External Examiner, Uppsala University PhD thesis of Bo Cao, 3 pion cross section in electron-positron annihilations at the KLOE experiment
2025/3 - 2025/4	Referee, U.S. National Science Foundation Proposal Review (PHY - Nuclear Theory)
2024/9 - 2024/10	Referee, U.S. Department of Energy Office of Science Proposal Review

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

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

2025/1 - 2025/12 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 2027-41. As Chair, I was lead editor of the document.

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.

Presentations

1. (2026). Probing Generalized Parton Distributions (GPDs) with the Solenoidal Large Intensity Device (SoLID). Canadian Association of Physicists Congress, Ottawa, ON, Canada
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
2. Postuma A*. (2026). Probing Hard/Soft Factorization via Beam-Spin Asymmetry in Exclusive Pion Electroproduction from the Proton. Jefferson Lab User Organization Annual Meeting, Newport News, VA, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
3. Hamdi A*, Kumar V*. (2026). Low Q2 results from the PionLT and KaonLT experiments at Jefferson Lab. American Physical Society Global Physics Summit, Denver, CO, United States of America
   Main Audience: Researcher
   Invited?: No, Keynote?: No
4. (2026). Deep Exclusive pi+ and K+ Studies at Jefferson Lab. Physics Department Seminar, University of Uppsala, Uppsala, Sweden
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
5. (2026). Electron Scattering and Hadron Structure. Mississippi State University Physics Colloquium, Starkville MS, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: Yes
6. Gaskell D, Horn T, Markowitz P. (2026). Pion and Kaon Structure analysis and future plans. Jefferson Lab Hall A/C Summer Meeting, Newport News, VA, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
7. Junaid M*, Kumar V*, Gaskell D, Horn T. (2026). Deep Exclusive pi+ Studies at Jefferson Lab. Towards Improved Hadron Femtography with Hard Exclusive Reactions, Charlottesville, VA, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
8. Junaid M*, Kumar V*. (2026). Probing Pion Structure with L/T-Separated Cross Sections in Hall C at Jefferson Lab. Jefferson Lab User Organization Annual Meeting, Newport News, VA, United States of America
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No

9. (2026). E-tilde via Transverse Target Spin Asymmetry and SoLID. Jefferson Lab Physics with High Luminosity Facilities, Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

10. Preet L*, Kay SJD. (2025). Early Science Projections for pi+ Form Factor Studies with ePIC at EIC. Canadian Association of Physicists Congress, Saskatoon, SK, Canada
Main Audience: Researcher
Invited?: No, Keynote?: Yes

11. Postuma AC*. (2025). A new angle into the proton: Backward-angle Meson Electroproduction. Canadian Association of Physicists Congress, Saskatoon, SK, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

12. Junaid M*. (2025). Measurement of Charged Pion Form Factor at Jefferson Lab. Canadian Association of Physicists Congress, Saskatoon, SK, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

13. Gaskell D, Horn T, Markowitz P. (2025). PionLT/KaonLT - First Separated Cross Sections from JLab 12 GeV Data. Jefferson Lab User Organization Annual Meeting, Newport News VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

14. Usman A*. (2025). Measurement of the Beam Spin Asymmetry for ep->e'pi+Delta0 at Jefferson Lab. Hall C User Meeting, Jefferson Lab (hybrid), Newport News, VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

15. Usman A*. (2025). Probing hadron structure through ep->e'pi+Delta0 reaction at Jefferson Lab. Canadian Association of Physicists Congress, Saskatoon, SK, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

16. Hamdi A*. (2025). Exclusive Kaon Electroproduction at Jefferson Lab. Canadian Association of Physicists Congress, Saskatoon, SK, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

17. Kumar V*. (2025). PionLT Low Q2 L/T Separated Cross Section Analysis. Hall C User Meeting, Jefferson Lab (hybrid), Newport News VA, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

18. Kay SJD, Preet L*. (2025). Meson form factor measurements and the importance of B0. EIC Detector 2 Working Group meeting, Brookhaven National Laboratory, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

19. Puckett A. (2024). Meson and Nucleon Form Factors. Science at the Luminosity Frontier: JLab @ 22 GeV, Frascati INFN-LNF, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

20. (2024). Measurement of the Charged Pion and Kaon Form Factors to High Q2 at JLab and the EIC. CFNS Workshop, Elucidating the Structure of Nambu-Goldstone Bosons, Stony Brook NY, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

21. 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

22. (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

23. 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

24. 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

25. (2024). The SoLID GPD Program. ECT* Workshop, Towards Improved Hadron Femtography with Hard Exclusive Reactions, Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

26. (2024). Probing the onset of QCD's Hard-Soft Factorization via Deep Exclusive Meson Production. Canadian Association of Physicists Congress, London, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

27. (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

28. Usman A*. (2024). Measurement of Beam Spin Asymmetry for Exclusive Pion Electroproduction at JLab Hall C. APS-DNP Annual Meeting, Boston MA, United States of America
Main Audience: Researcher
Invited?: No, Keynote?: No

29. Preet L*, Kay SJD. (2024). Far Forward Reconstruction Studies for Deep Exclusive Meson Production Reactions at the EIC. Canadian Association of Physicists Congress, London, ON, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

30. (2024). Deep Exclusive $p(e,e'\pi+)n$ and $p(e,e'K)\Lambda$ Studies at Jefferson Lab. ECT* Workshop, Towards Improved Hadron Femtography with Hard Exclusive Reactions, Trento, Italy
Main Audience: Researcher
Invited?: Yes, Keynote?: No

31. 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

32. (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

33. (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

34. 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

35. Usman A*. (2023). Measurement of the e+p -> e'+pi+ +Delta0 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

36. 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

37. 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

38. Postuma A*. (2023). From Spin to Structure: Beam Spin Asymmetry and the Strong Force. Canadian Association of Physicists Congress, Frederickton, NB, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

39. (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

40. Usman A*. (2023). Charged Pion Electroproduction Reaction Studies at Jefferson Lab. Canadian Association of Physicists Congress, Frederickton, NB, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No

41. Li WB, Pire, B, Cosyn W. (2022). Studying Color Transparency through u-Channel pi0 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

42. (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

43. (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

44. (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

45. (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

46. (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

47. 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

48. 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

49. 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

50. (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

51. 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

52. 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

53. (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

54. (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

55. 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

56. 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

57. (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

58. (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

59. 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

60. 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

61. 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

Text Interviews

2026/02/26	Beam-Spin Asymmetry Study Puts Proton Models to the Test, Jefferson Lab Press Release https://phys.org/news/2026-02-asymmetry-proton.html
2022/12/05	Reaching the Point of Pion L/T, Jefferson Lab Press Release

Publications

Journal Articles

1. Bosted P, ..., Ambrose R*, ..., Kay SJD*, ..., Kumar V*, ... (2026). Flavor, transverse momentum and azimuthal dependence of charged kaon and proton multiplicities in semi-inclusive deep-inelastic scattering with 11 GeV electrons. Physical Review C.
Submitted
Refereed?: Yes

2. Bosted P, ..., Ambrose R*, ..., Kay SJD*, ..., Kumar V*, ... (2026). Flavor, transverse momentum and azimuthal dependence of charged pion multiplicities in SIDIS with 10.6 GeV electrons. Physical Review C. 113: 035205 1-21.
Published
Refereed?: Yes

3. Alsalmi S, ..., Butuceanu C*, ... (2026). Investigation of Medium Modifications to ^{12}C Structure Functions in the Resonance Region. Physical Review Letters. 137: 112501 1-7.
   Published
   Refereed?: Yes

4. Afzal F, ... (2026). Baryon anti-baryon photoproduction cross sections off the proton. Physical Review C. 113: 045207 1-13.
   Published
   Refereed?: Yes

5. The ePIC Collaboration, Abbott D, ... Preet L*, ... (2026). ePIC Early Science Program at the Electron-Ion Collider: A First Look at Nucleon and Nuclear Structure with the ePIC Detector, epic-AN-AC-2026-04. Nuclear Instruments and Methods A, arXiv: 2608.05377 [nucl-ex].
   Submitted
   Refereed?: Yes

6. Postuma AC*, ..., Heinrich N*, ..., Junaid M*, Kay SJD*, ..., Kumar V*, ... Usman A*. ... Ambrose R*., ... (2026). Probing hard/soft factorization via beam-spin asymmetry in exclusive pion electroproduction from the proton. Physics Letters B. 872: 140094 1-8.
   Published
   Refereed?: Yes

7. Pedroni P, ..., Martel PP*, ..., Paudyal D*, ... (2026). Measurement of the Gerasimov-Drell-Hearn integrand for proton and deuteron from 200 to 1400 MeV. Physical Review C. 114: 045203 1-17.
   Published
   Refereed?: Yes

8. Nycz M, ..., Kay SJD*, ..., Kumar V*, ..., Usman A*, ... (2026). Quasielastic ^{3}He(\vec{e},e') Asymmetry in the Threshold Region. Physics Letters B. 880: 140742 1-5.
   Published
   Refereed?: Yes

9. Hamdi W, ..., Heinrich N*, ..., Junaid M*, ..., Postuma A*, ... (2026). Intrinsic Energy and Time Resolution of the Jefferson Lab Hall C Neutral Particle Spectrometer. Nuclear Instruments and Methods A. 1086: 171323 1-9.
   Published
   Refereed?: Yes

10. ePIC Collaboration, ..., Preet L*, ... (2026). Opportunities for Exclusive, Diffractive and Tagging Physics at the Electron-Ion Collider in the Early Science Period. Nuclear Instruments and Methods A.
    Submitted
    Refereed?: Yes

11. Boer M, ... (2026). Three-dimensional imaging of hadrons with hard exclusive reactions: advances in experiment, theory, phenomenology, and lattice QCD. European Physical Journal.
    Submitted
    Refereed?: Yes

12. Kumar V*, ..., Heinrich N*, ... Kay SJD*, ..., Postuma A*, ..., Usman A*, ... (2026). Measurement of Separated pi+ Electroproduction Cross Sections and Extraction of the Pion Form Factor at Q2=0.375 GeV2. Physical Review Letters.
    Revision Requested
    Refereed?: Yes

13. Afzal F, ... Hamdi A*, ... (2026). Search for the Y(2175) in the photoproduction cross-section measurement of $\gamma p\rightarrow \varphi\pi^{+}\pi^{-}p$ at GlueX. Physical Review Letters. 136: 251902 1-7.
    Published
    Refereed?: Yes

14. Afzal F, ... (2025). Measurement of Spin-Density Matrix Elements in phi(1020) to K^0S K^0L Photoproduction with a Linearly Polarized Photon Beam at E_gamma=8.2-8.8 GeV. Physical Review C. 112: 025203 1-11.
Published
Refereed?: Yes

15. Adkins JK, ..., Kay SJD*, ..., Usman A*, ... (2025). Design of the ECCE Detector for the Electron Ion Collider. Nuclear Instruments and Methods A. 1073: 170240 1-29.
Published
Refereed?: Yes

16. Afzal F, ... (2025). Measurement of the Total Compton Scattering Cross Section between 6.5 and 11 GeV. Physics Letters B. 870: 139914.
In Press
Refereed?: Yes

17. Bhatt H, ..., Ambrose R*, ..., Kay SJD*, ..., Kumar V*, ... (2025). Flavor Dependence of Charged Pion Fragmentation Functions. Physics Letters B. 865: 139485 1-6.
Published
Refereed?: Yes

18. Biswas D, ... Ahmed Z*., ..., Ambrose R*, ... Basnet S*., ... Evans R*., ... (2025). New Measurements of the Deuteron-to-Proton F_2 Structure Function Ratio. Physical Review Letters. 135: 151902 1-7.
Published
Refereed?: Yes

19. Qattan I, ... (2025). High Precision Measurements of the Proton Electromagnetic Form Factors and their Ratio at Q^2=0.50, 2.64, 3.20 and 4.10 GeV^2. Physical Review C. 112: 035205 1-31.
Published
Refereed?: Yes

20. Ali S, ..., Ambrose GR*, ..., Hamdi A*, Heinrich N*, ..., Junaid M*, ..., Kay SJD*, Kumar V*, ..., Li WB*, ..., Usman A*, ... (2025). The SHMS 11 GeV/c Spectrometer in Hall C at Jefferson Lab. Nuclear Instruments and Methods A. 1083: 171070 1-43.
Published
Refereed?: Yes

21. Afzal F, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*. (2024). First measurement using elliptically polarized photons of the double-polarization observable E for gamma p -> ppi0 and gamma p -> npi+. Physical Review Letters. 132: 121902 1-7,.
Published
Refereed?: Yes

22. Achenbach P, ...,. (2024). The Present and Future of QCD. Nuclear Physics A. 1047: 122874 1-111.
Published
Refereed?: Yes

23. 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. 308: 109444 1-22.
Published
Refereed?: Yes

24. Li R, ... Heinrich N*, ..., Kay SJD*, Kumar V*, ... (2024). Pion electroproduction measurements in the nucleon resonance region. European Physical Journal A. 60: 168 1-7.
Published
Refereed?: Yes

25. Accardi A, ..., Heinrich N*, ..., Junaid M*, ..., Kumar V*, ..., Postuma AC*, ..., Preet L*, ..., Usman A*, ... (2024). Strong Interaction Physics at the Luminosity Frontier with 22 GeV electrons at Jefferson Lab. European Physical Journal A. 60: 173 1-101.
Published
Refereed?: Yes

26. Mornacchi E, ..., Martel PP*, ..., Paudyal D*, ... (2024). Evaluation of the E2/M1 ratio in the N -> Delta(1232) transition from the $\gamma p \rightarrow p\pi^0$ reaction. Physical Review C. 109: 055201 1-15.
Published
Refereed?: Yes

27. 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

28. 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

29. 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

30. Bhetuwal D, ..., Ahmed Z*, ..., Ambrose R*, ..., Basnet S*, ..., Evans R*, ...,. (2023). Constraints on the onset of Color Transparency from quasi-elastic $^{12}C(e,e'p)$ scattering up to $Q^2=14.2$ $(GeV/c)^2$. Physical Review C. 108: 025203 1-13.
Published
Refereed?: Yes

31. 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

32. 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

33. 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

34. Seidl R, ..., Kay SJD*, ..., Usman A*. (2023). ECCE unpolarized TMD measurements. Nuclear Instruments and Methods. A 1055: 168458 1-11.
Published
Refereed?: Yes

35. 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

36. 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

37. Arrington J, ... (2023). The Solenoidal Large Intensity Device (SoLID) for JLab 12 GeV. Journal of Physics G. 50: 110501 1-58.
Published
Refereed?: Yes

38. Zhang J-L, ..., Kay SJD*, ..., Usman A*. (2023). Search for e -> tau charged lepton flavor violation at the EIC with the ECCE detector. Nuclear Instruments and Methods. A 1053: 168276 1-11.
Published
Refereed?: Yes

39. 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

40. Ghosal D, ..., Ahmed Z*, .., Martel PP*, ..., Paudyal D*. (2023). Helicity dependent cross sections for the photoproduction of pi0pi+/- pairs from quasi-free nucleons. Physics Letters B. 837: 138273 1-8.
Published
Refereed?: Yes

41. 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

42. 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

43. Adhikari S, ... (2022). Search for photoproduction of axion-like particles at GlueX. Physical Review D. 105: 052007 1-8.
Published
Refereed?: Yes

44. 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

45. 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

46. 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

47. 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

48. 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

49. Bashkanov M, ..., Kay SJD*, ..., Ahmed Z, ..., Paudyal D, ... (2022). Neutron polarization transfer C_x' in $\pi^{+}\mathrm{photoproduction}$ off proton. Physics Letters B. 847: 138283 1-7.
Published
Refereed?: Yes

50. 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

51. 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

52. 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

53. 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

54. Adhikari S, ... (2021). Measurement of beam asymmetry for $\mathrm{pi^{-}Delta^{++}}$ photoproduction on the proton at Egamma=8.5 GeV. Physical Review C. 103: L022201 1-7.
Published
Refereed?: Yes

55. 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

56. Mullen C, ..., Kay SJD*, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2021). Single $\mathrm{pi^0}$ production off neutrons bound in deuteron with linearly polarized photons. European Physical Journal A. 57: 205 1-11.
Published
Refereed?: Yes

57. 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

58. Bhetuwal D, ..., Ahmed Z*, ..., Ambrose R*, ..., Basnet S*, ..., Evans R*, ... (2021). Ruling out color transparency in quasi-elastic $^{12}C(e,e'p)$ up to Q^2 of 14.2 $(GeV/c)^2$. Physical Review Letters. 126: 082301 1-6.
Published
Refereed?: Yes

59. 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

60. 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

61. Adhikari S, ... (2021). The GlueX Beamline and Detector. Nuclear Instruments and Methods A. 987: 164807 1-39.
Published
Refereed?: Yes

62. Benali M, ..., Ahmed Z*, ... (2020). Deeply Virtual Compton Scattering off the Neutron. Nature Physics. 16: 191-198.
Published
Refereed?: Yes

63. Dieterle M, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2020). Helicity-dependent cross sections for the photoproduction of pi^0 pairs from nucleons. Physical Review Letters. 125: 062001 1-6.
Published
Refereed?: Yes

64. 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

65. Adhikari S, ...,. (2020). Measurement of the photon beam asymmetry in *gamma p->*K^+Sigma^0 at Egamma=8.5 GeV. Physical Review C. 101: 065206 1-7.
Published
Refereed?: Yes

66. 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

67. Bashkanov M, ..., Kay SJD*, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ...,. (2020). Signatures of the d*(2380) Hexaquark in d(gamma,p\vec{n}). Physical Review Letters. 124: 132001 1-6.
Published
Refereed?: Yes

Reports

1. Huber GM, Kay SJD, Preet L*. (2026). Light Meson Form Factors from Deep Exclusive Meson Production in early EIC science configurations with the ePIC Detector, epic-AN-AC-2026-02, https://doi.org/10.5281/zenodo.18681413. 31. ePIC Collaboration Analysis Note.

2. Andreoiu C, Barkanova S, Christian G, Gezerlis A, Huber G, Martin JW, Sanadpen R. (2025). The 2027-2034 Vision for Nuclear Physics in Canada, with an outlook to 2041, arXiv: 2602.22464. 141. Canadian Institute of Nuclear Physics.
3. 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.
4. 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.
5. Benesch J, ... (2022). Jefferson Lab Hall C: Precision Physics at the Luminosity Frontier, arXiv:2209.11838 [nucl-ex]. 66. Thomas Jefferson National Accelerator Facility.
6. 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.
7. Garni S, ..., Ahmed Z*, ..., Martel PP*, ..., Paudyal D*, ... (2022). Target and beam-target asymmetries for the gamma p -> pi0 pi0 p reaction, arXiv:2207.14079. 17. Mainz Microtron (MAMI).
8. Adkins JK, ..., Kay SJD*, ..., Usman A*, ... (2022). Design of the ECCE Detector for the Electron Ion Collider, arXiv: 2209.02580. 32. ECCE Collaboration.
9. 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.
10. Barkanova S, Dillmann I, Garnsworthy A, Gwinner G, Huber G, Mammei J. (2020). The 2022-2036 Horizon for Nuclear Physics in Canada -- From the Core of Matter to the Fuel of Stars. 187. Canadian Institute of Nuclear Physics.
11. Li WB, Huber GM, Stevens J. (2020). Backward-angle Exclusive pi0 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