

# Deborah Appel Harris

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## Professional Experience

- 7/19 - present Full Professor, York and Senior Scientist, Fermilab  
MINER $\nu$ A: Co-spokesperson  
DUNE: Liquid Argon Near Detector Group  
DUNE: York University Institutional Board Representative  
T2K: Neutrino Interactions and Cross Sections Groups  
University of Rochester Visiting Scientist
- 11/10 - 6/19 Senior Scientist, Fermi National Accelerator Laboratory  
MINER $\nu$ A: Co-spokesperson (since 2010)  
Neutrino Physics Center co-Leader (2015-2017)  
International Student Program Coordinator (9/2017-6/2019)
- 9/05 - 10/10 Scientist, Fermi National Accelerator Laboratory  
MINER $\nu$ A: Project Manager; Chair of Executive Committee;
- 9/99 - 9/05 Associate Scientist, Fermi National Accelerator Laboratory  
MINOS: Secondary and Primary Beamline Monitoring  
Superbeam and Neutrino Factory Feasibility Studies
- 4/94 - 8/99 Postdoctoral Research Fellow, University of Rochester  
FNAL-E815 (NuTeV): Coordination of calibration beam  
FNAL-E770/744 (CCFR): Gross Llewellyn Smith Sum Rule
- 6/90 - 3/94 Graduate Research Assistant, University of Chicago  
Measurement of BR( $K_L \rightarrow \pi^0 \ell^+ \ell^-$ )
- 9/89 - 1/91 Graduate Teaching Assistant, University of Chicago

## Degrees

Ph.D., June 1994, Physics, Thesis supervisor: Prof. Yau Wah, "A Search for the Decays  $K_L \rightarrow \pi^0 \ell^+ \ell^-$ " University of Chicago, Chicago, IL

M.Sc., June 1992, Physics, University of Chicago, Chicago, IL

A.B., May 1989, University of California at Berkeley Physics

## Honors

Fellow of the American Physical Society, 2015

MINER $\nu$ A Project Team is recipient of the Secretary of Energy's Achievement Award for Project Management, March 2011

## Selected Journal Publications

1. “Measurement of the axial vector form factor from antineutrino-proton scattering MINERvA Collaboration, T. Cai, M.L. Moore, A. Olivier *et al.*, *Nature*, **614**, 48-53 (2023)
2. “Simultaneous measurement of muon neutrino quasielastic-like cross sections on CH, C, water, Fe, and Pb as a function of muon kinematics at MINERvA”, J. Kleykamp *et al*, *Phys. Rev. Lett* **130**, 161801 (2023)
3. “Simultaneous measurement of proton and lepton kinematics in quasielastic-like - hydrocarbon interactions from 2 to 20 GeV, D. Ruterbories *et al*, *Phys.Rev.Lett.* **129** 2, 021803 (2022)
4. “Identification of nuclear effects in neutrino-carbon interactions at low three-momentum transfer, P. Rodrigues *et al*, *Phys. Rev. Lett.* **116**, 071802 (2016)
5. “Measurement of Muon Neutrino Quasi-Elastic Scattering on a Hydrocarbon Target at E 3.5 GeV”, G. A. Fiorentini, D. W. Schmitz, P. Rodrigues *et al*, *Phys. Rev. Lett.* **111** , 022502 (2013)
6. “Measurement of Muon Antineutrino Quasi-Elastic Scattering on a Hydrocarbon Target at E 3.5 GeV”, L. Fields, J. Chvoka, *et al.*, *Phys. Rev. Lett.* **111** , 022501 (2013)
7. “Accelerator-based neutrino oscillation experiments” Deborah A. Harris, published in **Neutrinos in particle physics, astrophysics and cosmology**, edited by F.J.P. Soler , C D. Froggatt, F. Muheim, Proceedings of 61st Scottish Universities Summer School in Physics, SUSSP61, St. Andrews, UK
8. “Observation of muon neutrino disappearance with the MINOS detectors and the NuMI neutrino beam” D. G. Michael *et al.* , *Phys. Rev. Lett.* **97** 191801 (2006)
9. “Physics Opportunities at Neutrino Factories”, J.J. Gomez-Cadenas and D. A. Harris, *Ann. Rev. Nucl. Part. Sci.* **52** 253 (2002)
10. “A Measurement of  $\alpha_s(Q^2)$  from the Gross-Llewellyn Smith sum rule” J.H.Kim, D. A. Harris *et al*, *Phys. Rev. Lett.* **81** 3595-3598 (1998)

## Selected Plenary Talks and Colloquia

- Fermilab User’s Meeting, Fermilab, July 2024 “MINERvA Results”
- Canadian Association of Physicists Congress 2024, June 2024 “Neutrino Detectors for the DUNE Experiment”
- Research Progress Seminar, Lawrence Berkeley Laboratory, May 2024 “Precision Neutrino Oscillation Measurements; Are We There Yet? ”
- NuINT 2024, Sao Paulo, Brazil, April 2024, “A New Look at Pions at MINERvA”
- MacDonald Institute Seminar, Queens University, December 2023, “Preparing for Precision Neutrino Oscillation Measurements on DUNE”
- University of Manitoba Colloquium, November 2023, “Interference Patterns with Neutrinos”
- Keynote Address (virtual), Canadian Undergraduate Physics Conference October 2022
- NuINT 2022, Seoul South Korea, November 2022, “Lepton-Hadron Correlations in QE-like Neutrino Scattering at MINERvA”
- Neutrino Oscillation Workshop 2022, Ostuni Italy, September 2022, “MINERvA Results and Prospects”
- Canadian Association of Physicists Congress 2020, (online) “Neutrino Interferometry at DUNE”
- Next Generation Nucleon Decay and Neutrino Detectors (NNN2019), Medellin, Columbia, November 2019, “Overview of Neutrino-Nucleus Interactions”

Flavor Physics and CP Violation (FPCP), Victoria, Canada, May 2019, “Future Neutrino Facilities”

Winter Nuclear and Particle Physics Conference (WNPPC), Banff, Canada, February 2019 “Neutrino Interferometry at DUNE”

Neutrino Interactions in the Few GeV Region (NuINT’17), Toronto, Canada, June 2017: “Experimental Summary of NuINT’17”

International Workshop on Frontiers in Electroweak Interactions of Leptons and Hadrons, Aligarh, India, November 2016: “Fermilab’s Current and Future Neutrino Cross-section Measurements Program”

International Center for Theoretical Physics Colloquium, Sao Paulo, Brazil , August 2015: “The Year in Neutrinos”

NuFact’15, Rio de Janeiro Brazil, August 2015: “Prospects for precision of neutrino cross-section measurements over the next 10 years”

Division of Particles and Fields Meeting, Santa Cruz, California, August 2013: “Neutrino Physics”

NuFact’12, JLAB/William and Mary, Virginia, July 2012: “Neutrino Beams”

Neutrino 2010, Athens, Greece, June 2010, “Neutrino Interactions: Results at Neutrino 2012 and Beyond”

DIS08, London, England, April 2008, “Neutrino Physics”

Weak Interactions and Neutrinos 2007, Kolkata, India, January 2007, “MINOS and NOvA”

Neutrino-Nucleus Interactions in the few-GeV Region (NuINT05), Okayama, Japan, September 2005, “Systematic Errors in Long Baseline Experiments”

Lepton Photon 2003, Batavia, IL, August 2003 “Future Experiments with Neutrino Superbeams, Betabeams, and Factories”

## Summer School Lectures

SLAC Summer Institute, Palo Alto, USA, August 2024 “Clarifying Neutrino Interactions”

NUSTEC Summer School, CERN, Geneva, Switzerland, June 2024 “Cross Section Measurements (Detectors)”

NUSTEC School, Sao Paulo, Brazil, May 2024 “General Introduction” (Kickoff Lecture for the school)

International Neutrino Summer School, Fermilab Batavia Illinois, USA, August 2023 “Experimental Neutrino Cross Sections”

Tri-Institute Summer School on Elementary Particles (TRISEP) 2022, Vancouver, BC, July 2022, “Neutrino Experiments”

Accelerator Neutrino Physics, Tri-Institute Summer School on Elementary Particles (TRISEP), hosted by SNOLab, June 2021 (online)

Neutrino Physics Colloquium during the International Neutrino Summer School, Sao Paulo, August 2015

SLAC Summer Institute 2015 “Neutrino Sources”

Invisibles Summer School, Paris France, July 2014: “Experimental Neutrino Physics”

Summer Schools for NuFact07 (Japan), Nufact’05 (Italy), Nufact’04 (Japan), Nufact’03 (USA), Nufact’02 (UK)

SUSSP61: Scottish Universities Summer School in Physics: Neutrinos, St. Andrews, Scotland, August 2006, “Accelerator Neutrino Oscillation Physics”

## Selected Outreach and Education Activities

- Co-Chair of International Neutrino Summer School (INSS) Organizing committees: 2016 (Viet Nam) 2015 (Brazil), 2014 (Scotland), 2013 (China), 2012 (USA), 2011 (Switzerland), 2008 (Spain)
- Organizing Committee Member of Summer Schools: INSS 2017 (Fermilab), INSS 2009 (Fermilab), NuFact'05, NuFact'04, NuFact'03
- Speaker at many Career Fairs and Classrooms at High Schools and Middle Schools
- Public Lectures on Neutrinos:
  - “MINERvA: I can't believe we built the whole thing”, April 2022, Fermilab Lecture Series on “How to do Big Science”
  - Neutrino Monologues: May 2016 (GoTo Chicago computing conference) October 2015 (CityCode Chicago at Second City Theater), January 2013 (Aspen Center for Physics), Fermilab Physics Slam participant (November 2012)
  - The Fastest Trip between Fermilab and Minnesota: July 2009 (Illinois Institute of Technology, Chicago), December 2006 (Fermilab)
- Contributor to the book *Motherhood, the Elephant in the Laboratory* , edited by Emily Monosson, Cornell University Press, May 2008
- 2005: participation in Quantum Diaries Blog see <http://qd.typepad.com/10/>

## External Advisory Activities

- High Energy Physics Early Career Review Panel (for the US Department of Energy), April 2023
- TRIUMF Particle Physics Experiment Evaluation Committee, starting Spring 2021
- SNO+ Director's Review February 2021, July 2024
- Hyper-Kamiokande Program Advisory Committee, Near Detector Expert Reviewer: Fall 2020 - Spring 2026
- NSERC Compute Canada Proposal Reviewer
- TRIUMF Particle Physics Experimental Evaluation Committee Spring 2021 - Spring 2024
- Reviewer on DOE Review of LSST-DESC: April 2017, and of LSST Facility: December 2017
- J-PARC Physics Advisory Committee: from June 2016 (4-year term)
- NSERC Expert Review Panel for T2K Review: December 2016
- US Department Of Energy (DOE) Committee of Visitors: October 2016
- NSF Review of ATLAS and CMS Upgrade Projects, January 2014
- Particle Data Group Advisory Committee:2008, 2010,2012, 2014, chair in 2014
- Daya Bay DOE CD-4a Review Committee: December 2010
- DPF Nominating Committee: April 2010
- Reviewer on DOE/NSF Review of LHC Maintenance and Operations, Software and Computing: February 2008
- Panofsky Prize Selection Committee member, 2007, 2008
- Reviewer on DOE and NSF University Grant Proposals, CAREER Proposals, NSERC Research Grants Program (Canada), Intalentum (Spain), Agencia Nacional de Evaluacin y Prospectiva (Spain), NSERC T2K Expert Review committee (December 2016)
- Referee for Physical Review Letters, Physical Review **D**, and Nuclear Instruments and Methods

## Selected Service on Fermilab Reviews and Committees

- Scientist Advisory Council, October 2016 to September 2018
- Director's Review Committee Member for MicroBooNE, COUPP, DUNE, LBNE, DECAM reviews
- Mu2e CD-3c Director's Review
- DUNE 35-ton Prototype Program Review, June 2016
- Wilson Fellow Committee, October 2013 to present
- Fermilab Committee on Scientific Appointments, 2012-2014
- Director's Reviews of COUPP Experiment and Installation, May 2012 and December 2009
- MicroBooNE CD-3b Director's Review, January 2012
- Search Committee for Scientific Computing Division Head, Fall 2011
- Long Baseline Neutrino Experiment Near Detector Review, October 2010
- Director's Initial Review of the MicroBooNE Project, November 2009
- Scientist Diversity Committee, 2009-2010
- Lederman Fellow Committee, 2007-2010
- DECAM Director's Review October 2007
- Committee on Hiring and Retention of Scientific Staff, 2006
- Fermilab Steering Committee Subgroup on Neutrinos, 2007
- Fermilab Long Range Planning Subcommittee on Neutrinos, 2003

## Student Supervision

- Supervisor of Ms. Maria Mehmood, Masters Student at York University, Masters Degree expected September 2024, transition to PhD student at York University
- Supervisor of Mr. Rowan Zaki, PhD Student at York University, Degree expected January 2025
- Supervisor of Mr. Anna Fedorova, PhD student at York University, Degree expected September 2027
- Supervisor of Ms. Rituparna Banerjee, Masters Student at York University, Masters Degree January 2024 now PhD student at U of Waterloo
- Co-supervisor of Ms. Vaniya Ansari, PhD Student at Aligarh Muslim University, Degree September 2023, now postdoc at Mississippi State University
- Co-supervisor of Mr. Sayeed Akter, PhD Student at Aligarh Muslim University, Degree expected December 2024
- Co-supervisor of Mr. Prameet Gaur, PhD Student at Aligarh Muslim University, Degree expected December 2024
- Co-supervisor of Mr. Zubair Ahmad Dar, PhD Student at Aligarh Muslim University, Degree in January 2021, now postdoc at William and Mary
- Co-supervisor of Ms. Faiza Akbar, PhD Student at Aligarh Muslim University, Degree in February 2021, now postdoc at University of Rochester
- Co-supervisor of Mr. Mitchell Yu, PhD Student at York University, Degree in May 2022

## Postdoctoral Supervision

- Dr. Noe Roy, postdoc at York University
- Dr. Tejin Cai, while postdoc at York University, now in industry
- Dr. Mino Kabirnezhad, while postdoc at York University, now has a Royal Commission for the Exhibition of 1851 fellowship with Imperial College of London
- Dr. Fady Shaker, while postdoc at York University, now in industry
- Dr. Nuruzzuman, while Postdoc at Rutgers University and University Technica Santa Maria (Chile), now Data Scientist at Ford Motor Company
- Dr. Manungu Kiveni, while Postdoc at Fermilab, now Data Scientist at Reprosourc
- Dr. Minerba Betancourt, while Postdoc at Fermilab, now Scientist at Fermilab

# Complete Bibliography

## Journal Publications

### *Review Articles*

1. “Physics Opportunities at Neutrino Factories”, J.J. Gomez-Cadenas and D. A. Harris, *Ann. Rev. Nucl. Part. Sci.* **52** 253 (2002)

### *DUNE*

2. “Low exposure long-baseline neutrino oscillation sensitivity of the DUNE experiment” A. Abud Abed *et al.* *Phys. Rev.* **D 105** 7 (2022)
3. “Long-baseline neutrino oscillation physics potential of the DUNE experiment” B. Abi *et al.*, *Eur. Phys. J.* **C 80** 10, 978 (2020)
4. “Design, construction and operation of the ProtoDUNE-SP Liquid Argon TPC” B. Abi *et al.*, *JINST* **17** 01 (2022)
5. “First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform”, B. Abi *et al.*, *Journal of Instrumentation*, **15**, 12 (2020)

### *T2K*

6. “First joint oscillation analysis of Super-Kamiokande atmospheric and T2K accelerator neutrino data” K. Abe *et al.*, submitted for publication, arXiv: 2405.12488 [hep-ex]
7. “Measurements of the  $\nu_\mu$  and  $\bar{\nu}_\mu$  -induced coherent charged pion production cross sections on  $^{12}\text{C}$  by the T2K experiment”, K. Abe *et al.*, *Phys. Rev.* **D 108** 9,9 (2023)
8. “Updated T2K measurements of muon neutrino and antineutrino disappearance using  $3.6 \times 10^{21}$  protons on target”, K. Abe *et al.*, *Phys. Rev.* **D 108**, 7, 072011 (2023)
9. “First measurement of muon neutrino charged-current interactions on hydrocarbon without pions in the final state using multiple detectors with correlated energy spectra at T2K”, K. Abe *et al.*, *Phys. Rev.* **D108** 11, 112009 (2023)
10. “Measurements of neutrino oscillation parameters from the T2K experiment using  $3.6 \times 10^{21}$  protons on target” *Eur. Phys. J.* **C 83**, 9, 782 (2023)
11. “First T2K measurement of transverse kinematic imbalance in the muon-neutrino charged-current single- $\pi^+$  production channel containing at least one proton”, K. Abe *et al.*, *Phys. Rev.* **D 103** 11, 112009 (2021)
12. “Improved constraints on neutrino mixing from the T2K experiment with  $3.13 \times 10^{21}$  protons on target” *Phys. Rev.* **D 103** 11, 112008 (2021)

### *MINERvA*

13. “Measurement of Electron Neutrino and Antineutrino Cross Sections at Low Momentum Transfer”, S. Henry *et al.*, *Phys. Rev. D* **109**, 092008 (2023)
14. “Measurement of the multineutron charged current differential cross section at low available energy on hydrocarbon”, A. Olivier *et al.*, *Phys. Rev. D* **108** 11, 112010 (2023)
15. “High-Statistics Measurement of Antineutrino Quasielastic-like scattering at E 6 GeV on a Hydrocarbon Target, A. Bashyal *et al.*, *Phys. Rev.* **D 108** 3, 032018 (2023)
16. “Improved constraint on the MINERvA medium energy neutrino flux using  $\bar{\nu}_e \rightarrow \bar{\nu}_e$  data L. Zazueta *et al.*, *Phys. Rev.* **D 107** 1, 012001 (2023)
17. “Simultaneous measurement of  $\nu_\mu$  quasielastic-like cross sections on CH, C, water, Fe, and Pb as a function of muon kinematics at MINERvA J. Kleykamp *et al.*, *Phys. Rev. Lett.* **130**, 161801 (2023)
18. “Neutrino-induced coherent  $\pi^+$  production in C, CH, Fe and Pb at  $\langle E_\nu \rangle \sim 6\text{GeV}$ ”, A. Ramirez *et al.*, *Phys. Rev. Lett.* **131**, 051801 (2023)

19. “Simultaneous measurement of  $\mu$  charged-current single  $\pi^+$  production in CH, C, H<sub>2</sub>O, Fe, and Pb targets in MINERvA A. Bercellie *et al.*, Phys. Rev. Lett. **131**, 011801 (2023)
20. “Measurement of the axial vector form factor from antineutrino-proton scattering T. Cai, M.L. Moore, A. Olivier *et al.*, Nature, 614, 48-53 (2023)
21. “Simultaneous measurement of proton and lepton kinematics in quasielastic-like - hydrocarbon interactions from 2 to 20 GeV, D. Ruterbories *et al.*, Phys. Rev. Lett. **129** 2 (2022)
22. “Measurement of inclusive charged-current  $\nu_\mu$  scattering on hydrocarbon at  $\langle E_\nu \rangle \sim 6$  GeV with low three-momentum transfer, M. V. Ascencio *et al.*, Phys.Rev. **D 106** 3 (2022)
23. “Vertex finding in neutrino-nucleus interaction: A Model Architecture Comparison, F. Akbar *et al.*, Journal of Instrumentation **17** T08013 (2022)
24. “Exploring neutrino-nucleus interactions in the GeV regime using MINERvA, X.-G. Lu *et al.*, Eur. Phys. J. Spec. Top. (2021)
25. “Constraining the NuMI neutrino flux using inverse muon decay reactions in MINERvA, D. Ruterbories *et al.*, Phys. Rev. **D 104** 092010 (2021)
26. “Measurement of inclusive charged-current  $\nu_\mu$  cross sections as a function of muon kinematics at  $\langle E_\nu \rangle \sim 6$  GeV on hydrocarbon”, D. Ruterbories *et al.*, Phys. Rev. **D 104** 092007 (2021)
27. “Use of Neutrino Scattering Events with Low Hadronic Recoil to Inform Neutrino Flux and Detector Energy Scale A. Bashyal *et al.*, JINST **16** P08068 (2021)
28. “Neutral pion reconstruction using machine learning in the MINERvA experiment at  $\langle E_\nu \rangle \sim 6$  GeV”, A. Ghosh *et al.*, JINST **16** (2021) P07060
29. “Double-Differential Inclusive Charged-Current  $\nu_\mu$  Cross Sections on Hydrocarbon in MINERvA at  $E_\nu \sim 3.5$  GeV A. Filkins *et al.*, Phys. Rev. **D 101** 11, 112007 (2020)
30. “Probing Nuclear Effects with Neutrino-induced Charged-Current Neutral Pion Production, D. Coplowe *et al.*, Phys. Rev. **D 102** 7, 072007 (2020)
31. “High-statistics measurement of neutrino quasielastic-like scattering at 6 GeV on a hydrocarbon target”, M. Carneiro *et al.*, Phys. Rev. Lett. **124**, 121801 (2020)
32. “Nuclear binding energy and transverse momentum imbalance in neutrino-nucleus reaction”, T. Cai *et al.*, Phys. Rev. **D 101** 9, 092001 (2020)
33. “Constraint of the MINERvA Medium Energy Neutrino Flux using Neutrino-Electron Elastic Scattering” , E. Valencia *et al.*, Phys.Rev. **D 100**, 9 (2019)
34. “Measurement of  $\bar{\nu}_\mu$  charged-current single  $\pi^-$  production on hydrocarbon in the few-GeV region using MINERvA”, Phys. Rev. **D 100** 052008, (2019)
35. “Tuning the GENIE Pion Production Model with MINERvA Data” , P. Stowell *et al.*, Phys. Rev. **D 100** 7, 072005, (2019)
36. “Neutron measurements from anti-neutrino hydrocarbon reactions”, M. Elkins *et al.*, Phys. Rev. **D 100** 052002 (2019)
37. “Measurement of Quasielastic-Like Neutrino Scattering at  $\langle E_\nu \rangle$  at 3.5 GeV on a Hydrocarbon Target” , D. Ruterbories *et al.*, Phys. Rev. **D 99**, 012004 (2019)
38. “Reducing model bias in a deep learning classifier using domain adversarial neural networks in the MINERvA experiment“, G. N. Perdue *et al.*, Journal of Instrumentation, Vol. 13 (2018)
39. “Measurement of final-state correlations in neutrino muon-proton mesonless production on hydrocarbon at  $\langle E_\nu \rangle = 3$  GeV “, X. Lu *et al.*, Phys. Rev. Lett. **121**, 022504 (2018)
40. “Antineutrino charged Current charged-current reactions on scintillator with low momentum transfer “, R. Gran *et al.*, Phys. Rev. Lett. **120**, 221805 (2018)
41. “Measurement of the muon anti-neutrino double-differential cross section for quasi-elastic scattering on hydrocarbon at  $\langle E_\nu \rangle \sim 3.5$  GeV “, C. Patrick *et al.*, Phys. Rev. **D 97**, 052002 (2018)



42. “Measurement of Total and Differential Cross Sections of Neutrino and Antineutrino Coherent Production on Carbon “, A. Mislivec *et al*, Phys. Rev. **D 97**, 032014, (2018)
43. “Measurement of  $\nu_\mu$  charged-current single  $\pi^0$  production on hydrocarbon in the few-GeV region using MINERvA, O. Altinok *et al*, Phys. Rev. **D 96**, 072003 (2017)
44. “Direct Measurement of Nuclear Dependence of Charged Current Quasielastic-like Neutrino Interactions using MINERvA”, M. Betancourt *et al*, Phys. Rev. Lett. **119**, 082001 (2017)
45. “Measurement of the antineutrino to neutrino charged-current interaction cross section ratio on carbon”, L. Ren *et al*, Phys. Rev. **D 95**, 072009 (2017)
46. “Measurement of neutral-current  $K^+$  production by neutrinos using MINERvA”, C. M. Marshall *et al*, Phys. Rev. Lett. **199**, 011802 (2017)
47. “Measurements of the Inclusive Neutrino and Antineutrino Charged Current Cross Sections in MINERvA Using the Low- Flux Method”, J. Devan *et al*, Phys. Rev. **D 94**, 112007 (2016)
48. “First evidence of coherent  $K^+$  meson production in neutrino-nucleus scattering”, C. M. Marshall *et al*, Phys. Rev. Lett. **117**, 061802 (2016)
49. “Measurement of  $K^+$  production in charged-current  $\nu_\mu$  interactions”, C. M. Marshall *et al*, Phys. Rev. **D 94**, 012002 (2016)
50. “Cross sections for neutrino and antineutrino induced pion production on hydrocarbon in the few-GeV region using MINERvA”, Phys. Rev. **D 94**, 052005 (2016)
51. “Evidence for neutral-current diffractive neutral pion production from hydrogen in neutrino interactions on hydrocarbon”, J. Wolcott *et al* Phys. Rev. Lett. **117**, 111801 (2016)
52. “Measurement of the NuMI Neutrino Flux using Neutrino-Electron Elastic Scattering”, J. Park *et al*, Phys. Rev. **D 93**, 112007 (2016)
53. “Measurement of Partonic Nuclear Effects in Deep-Inelastic Neutrino Scattering using MINERvA, J. Mousseau *et al*, Phys. Rev. **D 93**, 071101 (2016)
54. “Identification of nuclear effects in neutrino-carbon interactions at low three-momentum transfer, P. Rodrigues *et al*, Phys. Rev. Lett. **116**, 071802 (2016)
55. “Measurement of electron neutrino CCQE-like cross-section in MINERvA ”, J. Wolcott *et al*, Phys. Rev. Lett **116**, 081802 (2016)
56. “Charged Pion Production in Interactions on Hydrocarbon at average E of 4.0 GeV”, B. Eberly *et al*, Phys.Rev. **D92**, 092008 (2015)
57. “Single neutral pion production by charged-current  $\bar{\nu}_\mu$  interactions on hydrocarbon at  $< E_\nu > = 3.6 \text{ GeV}$ ”, T. Le *et al*, Phys.Lett. **B749** (2015)
58. “Measurement of Coherent Production of  $\pi^\pm$  in Neutrino and Anti-Neutrino Beams on Carbon from  $E_\nu$  of 1.5 to 20 GeV ”, A. Higuera *et al*, Phys. Rev. Lett. **113**, (2014)
59. “Measurement of Charged Current Proton Production  $\nu_\mu$  Scattering on Hydrocarbon at  $E_\nu \sim 4.0 \text{ GeV}$ ” T. Walton, *et al*, Phys Rev **D91** (2015)
60. “MINERvA searches for wisdom among neutrinos” Emily Maher, Deborah Harris, Kevin McFarland, 2014. Published in *CERN Courier* **54** (2014)
61. “MINERvA testbeam results”, L. Aliaga *et al*, Nucl.Instrum.Meth. **A789** (2015).
62. “Measurement of Ratios of Muon Neutrino Charged-Current Cross Sections on C, Fe, and Pb to CH at Neutrino Energies 2-20 GeV”, B. G. Tice *et al* , Phys. Rev. Lett. **112**, (2014)
63. “Measurements of  $d\sigma/dQ^2$  and Final State Nucleons in Muon Neutrino Quasi-Elastic Scattering on a Hydrocarbon Target”, G. A. Fiorentini, *et al*, Phys. Rev. Lett. **111** (2013)
64. “Measurement of  $d\sigma/dQ^2$  in Muon Anti-Neutrino Quasi-Elastic Scattering on a Hydrocarbon Target”, L. Fields *et al*, Phys. Rev. Lett. **111** (2013)

65. “Design, Calibration and Performance of the MINERvA Detector”, L. Aliaga *et al.*, Nucl. Instr. and Meth. **A743** (2014)
66. “Demonstration of Communication using Neutrinos”, D. D. Stancil *et al.*, Mod.Phys.Lett. **A27** (2012).
67. “The MINERvA Data Acquisition System and Infrastructure”, G. N. Perdue *et al.* Nucl.Instrum.Meth. A694 (2012)
68. “Arachne - A web-based event viewer for MINERvA”, N. Tagg *et al.*, Nucl.Instrum.Meth. **676** (2012)

#### MINOS

69. “The NuMI Neutrino Beam”, P. Adamson *et al.*, Nucl. Instrum. Meth. **A806** 279 (2016)
70. “Active to sterile neutrino mixing limits from neutral-current interactions in MINOS”, MINOS Collaboration (P. Adamson *et al.*), Phys. Rev. Lett., **107** (2011)
71. “First direct observation of muon antineutrino disappearance”, MINOS Collaboration (P. Adamson *et al.*), Phys. Rev. Lett., **107** (2011)
72. “Measurement of the neutrino mass splitting and flavor mixing by MINOS”, MINOS Collaboration (P. Adamson *et al.*), Phys. Rev. Lett., **106** (2011)
73. “Measurement of the underground atmospheric muon charge ratio using the MINOS Near Detector” MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. **D83** (2011)
74. “Observation in the MINOS far detector of the shadowing of cosmic rays by the sun and moon” MINOS Collaboration (P. Adamson *et al.*), Astropart.Phys. **34** (2011)
75. “A Search for Lorentz Invariance and CPT Violation with the MINOS Far Detector”, MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. Lett, **105** 151601 (2010)
76. “New constraints on muon-neutrino to electron-neutrino transitions in MINOS” MINOS Collaboration (P. Adamson *et al.* Phys. Rev. **D82** 051102 (2010)
77. “Search for sterile neutrino mixing in the MINOS long baseline experiment” MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. **D81** 52004 (2010)
78. “Neutrino and Antineutrino Inclusive Charged-current Cross Section Measurements with the MINOS Near Detector”. MINOS Collaboration (P. Adamson *et al.*) Phys. Rev. **D81** 72002 (2010)
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