

Curriculum Vitae — November 4, 2021

Heidi M Schellman

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Education and Employment

Primary Position	Joint Appointment
Professor	Visiting Scientist
College of Science	Scientific Computing
Oregon State University	Fermilab

Area of Interest: Experimental High Energy Physics

Education

B. S. Degree, June 1977, Stanford University (Mathematics)
M.A. Degree, June 1980, University of California. Berkeley (Physics)
Ph.D. Degree, December, 1984, University of California. Berkeley (Physics)
Ph.D. Advisor: George Trilling

Employment

1975- 1976 Lab Assistant, Institute for Molecular Biology, University of Oregon
1978 Programmer, PEP Project, SLAC
1978 - 1979 Teaching Assistant, U.C. Berkeley
1979 - 1984 Research Assistant, Lawrence Berkeley Laboratory
Mark II collaboration
1985 - 1988 Research Associate, EFI, University of Chicago
CCFR Collaboration
1988 - 1990 Wilson Fellow, Fermi National Accelerator Laboratory
E665 Muon Scattering Collaboration
1990 - 1995 Assistant Professor, Dept. of Physics and Astronomy,
Northwestern University
E665 and D0 Collaborations

1995 - 2000 Associate Professor, Dept. of Physics and Astronomy,
Northwestern University
D0 and NuTeV Collaborations

1999-2000 Staff Scientist at Fermilab (leave of absence from Northwestern)

2000-2014 Professor, Dept. of Physics and Astronomy,
Northwestern University
CTEQ, D0, $g - 2$ and MINERvA Collaborations

2000-2002 Associate Chair, Department of Physics and Astronomy, Northwestern University

2004-2007 Associate Dean for Research and Graduate Studies
Weinberg College of Arts and Sciences, Northwestern University

2010-2014 Chair, Department of Physics and Astronomy, Northwestern University

2015-2021 Head, Department of Physics, Oregon State University

2015-present Professor, Department of Physics, Oregon State University
MINERvA and DUNE Collaborations

2019-present Joint Appointment with Fermilab Scientific Computing

Teaching, Advising and Other Assignments

Instructional Summary

Credit Courses

Course	Title	Term	Enrollment
Physics 314	Modern Physics	Fall 2015	28
Physics 607	Research Integrity	Winter 2016	8
Physics 607	Research Integrity	Winter 2017	10
Physics 495/595	Particle Physics	Spring 2017	23
Physics 607	Research Integrity	Winter 2018	6
Physics 607	Research Integrity	Winter 2019	11
Physics 495/595	Particle Physics	Spring 2019	17
Physics 607	Research Integrity	Winter 2020	7
Physics 199	Introduction to the Major	Fall 2020	6
Physics 607	Research Integrity	Winter 2021	11
Physics 495/595	Particle Physics	Spring 2021	11

Noncredit Courses and Workshops

- "Neutrino Oscillations" Lecture at the CTEQ summer School, Lake Geneva Wisconsin, WI, June 2000.
- Lectures on "Practical Collider Physics", TASI Summer School, Boulder Colorado, June 2004.

- "Practical Collider Physics", four lectures at "Prospects in Theoretical Physics", Institute for Advanced Study, Princeton NJ, July 2005.
- Lectures at the HUGS Summer School, Jefferson National Laboratory, June 2010.

Curriculum Development

At Northwestern

1994 - First use of web pages for classes

1997 - Developed a new sophomore level computational physics course

2001 - Developed a general science course for non-majors "Extra Dimensions"

2012 - Developed a multi-disciplinary course "Einstein and the 20th Century" with Mathew Grayson (EECS) and Peter Fenves (German and Comparative Literature)

At Oregon State

2016 - Updated the senior level Particle Physics course which had not been taught for several years.

2016 - Updated the graduate level research course to include research rotations. This has led to faster placement of students in research.

2020 - Introduction to the major seminar for small groups of students.

Graduate Students and Postdoctoral Trainees

Doctoral Students Supervised at Northwestern

Panagiotis Spentzouris, 1991-1994, Scientific Lead, Quantum Initiative, Fermilab

Tacy Joffe-Minor, 1992-1997, Instructor, University of Arkansas

Tracy Taylor-Thomas, 1992-1997, Director of Program Management at Cloudability

Robert Snihur, 1994-2000, System Administrator, US-CMS project, University of Nebraska

Geralyn "Sam" Zeller, 1995-2002, Spokesperson MicroBooNE collaboration, Fermilab

Timothy Andeen, 2004-2008, Assoc. Prof., U.T. Austin

Sahal Yacoob, 2005-2010, Senior Lecturer, Univ. of Cape Town

Cheryl Patrick, 2010-2016, STFC Fellow, University of Edinburgh

Zeller received a Dept. of Energy CAREER Award and the American Physical Society Tanaka Dissertation Award.

Patrick has won an STFC Fellowship to support her research at the University of Edinburgh.

Doctoral Students Supervised at Oregon State

Amit Bashyal, 2015-2021, Postdoc, Argonne National Laboratory

Maggie Greenwood, 2017-2019, MS degree

Sean Gilligan, 2018-present MS(2021)

Noah Vaughan, 2019-present

Jacob Capps, 2020-present

Amit Bashyal's beam simulation work was the basis of an NSF grant and he won the group presentation prize at the International Neutrino Summer School.

Postdoctoral Fellows Supervised at Northwestern

Iain Bertram, 1997-2000, Professor of Physics University of Lancaster

Lucyna de Barbaro, 1998-2001, Conservation Consultants, Pittsburgh

Harald Fox, 2000-2004, Senior Lecturer, University of Lancaster

Gregory Davis, 2004-2005, Research Staff, Institute for Defense Analyses

Jonathan Hays, 2005-2007, Professor of Physics, Queen Mary College, London

Michael Kirby, 2007-2010, Scientist, Fermilab

Laura Fields, 2011-2015, Associate Professor, University of Notre Dame

Leah Welty-Rieger, 2012-2014, GEANT4 Consultant, Chicago Area

Laura Fields recently won the Universities Research Association Early Career Scientist Award and a Dept. of Energy CAREER award.

Postdoctoral Fellows Supervised at Oregon State

Mateus Carneiro, 2016-2019, now Postdoc at Brookhaven National Lab

Jacob Calcutt, 2021-

Team or Collaborative Efforts

I was the first woman to lead a major particle physics experiment in the US. I continue to take leadership roles in these large collaborative efforts. I list the leadership roles I have

taken in scientific collaborations.

1987	Run coordinator, CCFR experiment
1991-1997	Spokesperson of Fermilab Experiment E665
1996-1998	D0 Collaboration QCD convener
2000	Co-leader Fermilab Neutrino Factory Physics Study
2000-2001	Co-leader D0 software and computing project
2007-2008	Chair, D0 Collaboration Institutional Board
2007-2009	D0 Collaboration Electroweak Convener
2008-2014	Computing Infrastructure Coordinator, MINERvA collaboration
2009-	D0 representative, Tevatron Electroweak Working Group (TEVEWWG)
2010-2012	Elected Member, D0 collaboration Advisory Council
2013-2016	Elected member, Minerva Executive Committee
2017-2018	Computing Coordinator for the DUNE collaboration
2018-present	Member DUNE collaboration executive board
2018-present	Leader of the International DUNE Collaboration Computing Consortium
2021-present	Deputy Chair, DUNE Institutional Board

International Teaching

Instructor at *Taller de Altas Energias* in Benasque Spain, Sept. 4-9, 2016

Advising

Informal advising as Dept. Head.

Undergraduate Research advisor for: Evan Peters (BS Physics/Nuclear Engineering 2017), Gabriel Nowak (2018), Abraham Teklu (2018), Alex Gonzalez (2019), Kaseylin Yoke (2021), Phoebe Lefevre (class of 2024)

Local research supervisor for Tymothy Mangan (BS Physics 2017)

Supervising three Computer Science students (2021) in a capstone project.

Other Assignments

Dept. Head responsible for fostering research by faculty and students, scheduling courses, encouraging the development of new courses and evaluation of teaching by faculty and graduate teaching assistants.

I have added Learning Assistants in introductory courses, expanded tutoring hours to 50 hrs/week serving up to 500 student visits/week.

Planning and execution of pandemic remote teaching plans for Physics.

Scholarship and Creative Activity

Publications and Reports

Co-Author on 695 publications and reports with over 56,000 citations and an h-index of 113 according to the InspireHEP database. High Energy Physics lists all contributors on all papers so these numbers are larger than in other fields. I list the papers to which I made the most significant contributions below. The full list is available at <http://inspirehep.net> and at the end of this document.

Since coming to OSU I have been a co-author on 44 publications and reports.

Significant papers since arriving from OSU

- [1] A. Bashyal *et al.* [MINERvA], “Use of Neutrino Scattering Events with Low Hadronic Recoil to Inform Neutrino Flux and Detector Energy Scale,” JINST 16 P08068 (2021), doi:10.1088/1748-0221/16/08/p08068, [arXiv:2104.05769 [hep-ex]]. 1 citations counted in INSPIRE as of 04 Nov 2021

This paper, led by former student Amit Bashyal, describe a method to simultaneously fit the energy scale and beam parameters in a neutrino experiment and had substantial influence on recent results from the MINERvA experiment and design of the DUNE near detector systems.

- [2] C. E. Patrick *et al.* [MINERvA], “Measurement of the Muon Antineutrino Double-Differential Cross Section for Quasielastic-like Scattering on Hydrocarbon at $E_\nu \sim 3.5\text{GeV}$,” Phys. Rev. D **97**, no.5, 052002 (2018) doi:10.1103/PhysRevD.97.052002 [arXiv:1801.01197 [hep-ex]]. 42 citations counted in INSPIRE as of July 2021.

I wrote this paper with former student Cheryl Patrick and former postdoc Laura Fields. Patrick won a 2018 Springer Dissertation Award for this work.

- [3] D. Ruterbories *et al.* [MINERvA], “Measurement of Quasielastic-Like Neutrino Scattering at $\langle E_\nu \rangle \sim 3.5\text{ GeV}$ on a Hydrocarbon Target,” Phys. Rev. D **99**, no.1, 012004 (2019) doi:10.1103/PhysRevD.99.012004 [arXiv:1811.02774 [hep-ex]]. 32 citations counted in INSPIRE as of July 2021.

Student Amit Bashyal and postdoc Mateus Carneiro made major contributions to this work.

- [4] B. Abi *et al.* [DUNE], “First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform,” JINST **15**, no.12, P12004 (2020) doi:10.1088/1748-0221/15/12/P12004 [arXiv:2007.06722 [physics.ins-det]]. 33 citations counted in INSPIRE as of July 2021.

I led the computing effort to catalog and reconstruct the data for this result.

- [5] B. Abi *et al.* [DUNE], “Long-baseline neutrino oscillation physics potential of the DUNE experiment,” Eur. Phys. J. C **80**, no.10, 978 (2020) doi:10.1140/epjc/s10052-020-08456-z [arXiv:2006.16043 [hep-ex]].

Student Amit Bashyal and former postdoc Laura Fields did the beamline design studies presented in this document.

- [6] H. Schellman [DUNE], “Computing for the DUNE Long-Baseline Neutrino Oscillation Experiment,” EPJ Web Conf. **245**, 11002 (2020) doi:10.1051/epjconf/202024511002 [arXiv:2004.09037 [physics.ins-det]]. 0 citations counted in INSPIRE as of July 2021

Plenary contribution to the Computers In High Energy Physics conference.

- [7] B. Abi *et al.* [DUNE], “Volume I. Introduction to DUNE,” JINST **15**, no.08, T08008 (2020) doi:10.1088/1748-0221/15/08/T08008 [arXiv:2002.02967 [physics.ins-det]]. 105 citations counted in INSPIRE as of July 2021.

I wrote the computing chapter.

- [8] M. F. Carneiro *et al.* [MINERvA], “High-Statistics Measurement of Neutrino Quasielastic-like Scattering at 6 GeV on a Hydrocarbon Target,” Phys. Rev. Lett. **124**, no.12, 121801 (2020) doi:10.1103/PhysRevLett.124.121801 [arXiv:1912.09890 [hep-ex]]. 11 citations counted in INSPIRE as of July 2021.

Written by OSU postdoc Mateus Carneiro and myself.

Selected earlier papers

- [1] N. Lockyer, J. Jaros, M. E. Nelson, G. S. Abrams, D. Amidei, A. R. Baden, C. A. Blocker, A. Boyarski, M. Breidenbach and P. Burchat, *et al.* “Measurement of the Lifetime of Bottom Hadrons,” Phys. Rev. Lett. **51**, 1316 (1983) doi:10.1103/PhysRevLett.51.1316. 345 citations counted in INSPIRE as of July 2021.

I was a member of a group of six who performed the first measurement of the B meson lifetime. Nigel Lockyer received the Panofsky prize for this work.

- [2] W. K. Tung, J. G. Morfin, H. Schellman, S. Kunori, A. Caldwell, F. I. Olness, “Structure Functions and Parton Distributions,” in 4th DPF Summer Study on High-energy Physics in the 1990s, Snowmass, CO, USA, 27 Jun - 15 Jul 1988, pp.305-330. FERMILAB-CONF-89-026

This study led to the Morfin-Tung and CTEQ PDF sets which are still widely used in the field.

- [3] M. R. Adams *et al.* [E665], “Proton and deuteron structure functions in muon scattering at 470-GeV,” *Phys. Rev. D* **54**, 3006-3056 (1996) doi:10.1103/PhysRevD.54.3006. 376 citations counted in INSPIRE as of July 2021.

I was spokesperson for the experiment and co-supervised the Harvard student (Ashutosh Kotwal) whose work this is.

- [4] B. Abbott *et al.* [D0], “Determination of the absolute jet energy scale in the D0 calorimeters,” *Nucl. Instrum. Meth. A* **424**, 352-394 (1999) doi:10.1016/S0168-9002(98)01368-0 [arXiv:hep-ex/9805009 [hep-ex]]. 195 citations counted in INSPIRE as of 26 Oct 2020.

I led the QCD working group for the D0 experiment when we did the jet analysis and energy scale determination.

- [5] B. Abbott *et al.* [D0], *Phys. Rev. Lett.* **82**, 2451-2456 (1999) doi:10.1103/PhysRevLett.82.2451 [arXiv:hep-ex/9807018 [hep-ex]]. 126 citations counted in INSPIRE as of July 2021.

I led the QCD working group for the D0 experiment when we did the jet analysis.

- [6] V. M. Abazov *et al.* [D0], “Measurement of the inclusive jet cross-section in $p\bar{p}$ collisions at $s^{(1/2)} = 1.96$ -TeV,” *Phys. Rev. Lett.* **101**, 062001 (2008) doi:10.1103/PhysRevLett.101.062001 [arXiv:0802.2400 [hep-ex]]. 310 citations counted in INSPIRE as of 30 Oct 2020.

I led the editorial board that cross-checked and certified the results.

- [7] C. Albright *et al.*, S. Geer and H. Schellman editors, “Physics at a Neutrino Factory,” FERMILAB-FN-0692. Aug 2000. 133 pp. [arXiv:hep-ex/0008064 [hep-ex]]. 402 citations counted in INSPIRE as of 15 Oct 2020.

I led the physics study with S. Geer.

- [8] G. P. Zeller *et al.* [NuTeV], “A Precise Determination of Electroweak Parameters in Neutrino Nucleon Scattering,” *Phys. Rev. Lett.* **88**, 091802 (2002) [erratum: *Phys. Rev. Lett.* **90**, 239902 (2003)] doi:10.1103/PhysRevLett.88.091802 [arXiv:hep-ex/0110059 [hep-ex]]. 801 citations counted in INSPIRE as of 27 Oct 2020.

Dissertation work of student Sam Zeller. Zeller received the Tanaka Dissertation Prize for this work.

- [9] V. M. Abazov *et al.* [D0], “Measurement of the W Boson Mass with the D0 Detector,” Phys. Rev. Lett. **108**, 151804 (2012) doi:10.1103/PhysRevLett.108.151804 [arXiv:1203.0293 [hep-ex]]. 139 citations counted in INSPIRE as of July 2021.

Dissertation work of students Tim Andeen and Sahal Yacoob.

- [10] Neutrino Scientific Assessment Group Reports, G. Beier and P. Meyers editors, 2006-2007

This was a three year advisory process for the NSF and Dept. of Energy that led to the proposal for the DUNE experiment.

- [11] V. M. Abazov *et al.* [D0], “Measurement of $\sin^2 \theta_{\text{eff}}^e$ and Z -light quark couplings using the forward-backward charge asymmetry in $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^-$ events with $\mathcal{L} = 5.0 \text{ fb}^{-1}$ at $\sqrt{s} = 1.96 \text{ TeV}$,” Phys. Rev. D **84**, 012007 (2011) doi:10.1103/PhysRevD.84.012007 [arXiv:1104.4590 [hep-ex]]. 68 citations counted in INSPIRE as of 20 Oct 2020.

Dissertation of USTC student Hang Yin. I co-supervised Hang and led the electroweak working group that supervised the effort.

- [12] L. Fields *et al.* [MINERvA], “Measurement of Muon Antineutrino Quasielastic Scattering on a Hydrocarbon Target at $E_\nu \sim 3.5 \text{ GeV}$,” Phys. Rev. Lett. **111**, no.2, 022501 (2013) doi:10.1103/PhysRevLett.111.022501 [arXiv:1305.2234 [hep-ex]]. 206 citations counted in INSPIRE as of July 201.

First anti-neutrino result from MINERvA with postdoc Laura Fields.

- [13] T. A. Aaltonen *et al.* [CDF and D0], “Combination of CDF and D0 W -Boson Mass Measurements,” Phys. Rev. D **88**, no.5, 052018 (2013) doi:10.1103/PhysRevD.88.052018 [arXiv:1307.7627 [hep-ex]]. 121 citations counted in INSPIRE as of 26 Oct 2020.

Final combination of results from two experiments. I did the statistical analysis.

Invited and Peer Selected Presentations

- ‘Strange and Vector Meson Production in e^+e^- Annihilation at 29 GeV’, Washington APS Meeting (March 1984)
- ‘Strange and Vector Meson Production in e^+e^- Annihilation at 29 GeV’, High Energy Physics seminar at Univ. of Pennsylvania, (Nov 1984)

- 'Strange and Vector Meson Production in e^+e^- Annihilation at 29 GeV', High Energy Physics seminar at Univ. of Chicago, (Nov 1984)
- 'Review of Neutrino Program at Fermilab', presentation to the Dept. of Energy, Fermilab (May 1986)
- 'Future results on Same Sign Dimuon Production in Neutrino-Nucleon Interactions', High Energy Physics seminar at Univ. of Chicago (May 1986)
- 'Same Sign Dimuon Production in Neutrino-Nucleon Interactions', High Energy Physics seminar at Univ. of Michigan (January 1987)
- 'Neutrino Production of Like-Sign Dimuons', Invited talk at Rencontres de Physique de la Vallee d' Aoste, La Thuile, Italy (March 1987) (Published in the Proceedings)
- 'Report on La Thuile Conference', High Energy Physics seminar at Fermilab (March 1987).
- 'Neutrino Production of Like Sign Dimuons', High Energy Physics seminar at Stanford Linear Accelerator Center (May 1987)
- 'Production of Muons in Hadronic Showers', High Energy Physics seminar at Univ. of Chicago (May 1988)
- Participated in the Parton Distributions group at Snowmass '88. (Published in Proceedings)
- 'Status of Parton Distributions', High Energy Physics seminar at Univ. of Chicago, (August 88)
- 'Neutrino Production of Charm at Fermilab E744', Invited talk at SLAC Summer School (August 1988) (Published in Proceedings)
- 'Proposal for E665 Tracking Upgrades', Presentation to Fermilab Program Advisory Committee, Fermilab (January 1989)
- 'Consumers Guide to Parton Distributions', High Energy Physics seminar at Univ. of Illinois (February 1989)
- 'The Quark Content of the Proton', High Energy Physics seminar at Northwestern (February 1990)
- 'Consumers Guide to Parton Distributions', Seminar for CDF collaboration at Fermilab (February 1990)

- 'DO Tracking upgrades', High Energy Physics seminar at University of Chicago, November 1990.
- 'DO Upgrade Proposal', presentation to the Fermilab Physics Advisory Committee, Fermilab, April 2, 1991.
- 'Preliminary Results from Fermilab E665 - Muon Scattering at Low X_{Bj}', invited seminar at the International Lepton-Photon Symposium, Geneva Switzerland, July 1991.
- 'How do we know what's in the proton?', Physics Department colloquium at the Department of Physics, University of Iowa, September 9th, 1991.
- 'Overview of Fermilab Fixed Target Experiments', presentation to the Universities Research Association, Fermilab, January 19th, 1992.
- 'How do we know what's in the proton?', Colloquium at the Department of Physics and Astronomy, Northwestern University, February 19th, 1992.
- 'Jets and QCD' High Energy Physics seminar at Argonne National Lab, Argonne Illinois, June 1992.
- 'How do we know what's in the proton?' Colloquium at the Department of Physics Rice University, Houston Texas, October 1992.
- 'Jets and QCD', High Energy Physics seminar at Northwestern University, November 24, 1992.
- 'Jets and QCD', High Energy Physics seminar at University of Maryland, December 2, 1992.
- 'Jets and QCD', High Energy Physics seminar at University of Wisconsin, December 7, 1992.
- 'How do we know what's in the proton?', Colloquium at the Department of Physics, University of Illinois-UC, February 18, 1993.
- 'E665 Jet measurements', seminar at DESY, Hamburg, Germany, April 5, 1993.
- 'Recent Results from FNAL E665', seminar at Freiburg; University, Germany, July 9, 1993.
- 'Recent Results from FNAL E665', seminar at CERN, Geneva, Switzerland, July 12, 1993.

- 'How do we know what's in the proton?', Colloquium at the Department of Physics and Astronomy, University of Oregon, November 18, 1993.
- 'Jets and QCD', seminar at Michigan State University, November 30, 1993.
- 'History of the Fermilab Neutrino Program', Fest in honor of R.R. Wilson, Fermilab, March 4, 1994.
- H. Schellman et al., Nuclear A dependence of Exclusive Vector Meson Production in Muon Scattering, FERMILAB-Conf-94/219-E, Presented at the XXIXth Rencontres de Moriond, QCD and High Energy Interactions, Meribel, Savoie, France, March 19-26, 1994.
- 'Structure Functions from FNAL E665', seminar at the Max-Planck-Institut für Physik, Munich, Germany, March 29, 1994.
- 'Recent Results from FNAL E665', seminar at University of Michigan, April 11, 1994.
- 'Results from Fermilab E665 - Structure Functions and Color Transparency', seminar at University of California, Santa Cruz, April 28, 1994.
- 'Where do Parton distributions come from?', academic lecture for 'University of D0', Fermilab, May 26, 1994.
- 'Results from Fermilab E665, Structure functions and diffraction, seminar at DESY, Hamburg, Germany, September 13, 1994.
- Invited Plenary talk at the Annual Meeting of the American Physical Society, April 1995.
- Invited Plenary talk at the Paris Workshop on Quantum Chromodynamics, April 1995.
- Invited talk at the Blois Conference on Strong Interaction Physics, June 1996.
- Lecture on Statistical Analysis of Data at the University of D0, July 1995.
- Colloquium at Illinois Institute of Technology, October 1995.
- Invited plenary talk at the Wisconsin Phenomenology Workshop, Madison Wisconsin, April, 1996
- Colloquium at Harvard University, April 15, 1996.
- Colloquium at Purdue University, September 26, 1996.

- Invited talk at the Workshop on Small-x Physics, Argonne National Laboratory, October 1, 1996.
- Seminar on Diffractive Production on Heavy Nuclei at University of Illinois, November 5, 1996.
- Organized a 4-day workshop on 'QCD at D0' at Michigan State University, December 1996.
- Invited talk at the Workshop on Deep Inelastic Scattering, Chicago, IL, April 1997.
- Summary of the Fermilab Research Program at the Fermilab annual User's meeting, July 1997.
- Invited Plenary talk *Review of QCD Experiment* at the 28th Lepton Photon Symposium in Hamburg, Germany, July 1997.
- Invited Plenary talk *Deep Inelastic Scattering at a Muon Collider Complex* Workshop on Physics at the First Muon Collider, Batavia IL, November 1997.
- Seminar on neutrino measurements of the Weinberg Angle, University of Michigan, November, 1998.
- Seminar on high energy jet production at the D0 experiment, Argonne National Laboratory, December, 1998.
- Parallel session talk at International Workshop on Deep Inelastic Scattering and QCD, Berlin, Germany, April 2000.
- Plenary summary talk at International Workshop on Deep Inelastic Scattering and QCD, Berlin, Germany, April 2000.
- H. Schellman, "Fermilab Neutrino Factory Physics Study", Plenary talk at 'MUMU99 Workshop', San Francisco, December 1999.
- H. Schellman "Status Report on D0 Reconstruction Farms", Parallel session talk at CHEP2000, Padova Italy, February 2000.
- H. Schellman *et al.*, "Neutrino beams from muon storage rings", Neutrino and Nucleon Decay Workshop, Irvine, California, March 2000.
- "Neutrino Factories" Seminar at University of Maryland, March 2000.
- "Neutrino Factories" Seminar at University of Illinois, April 2000.

- "Neutrino Factories" Plenary talk at Phenomenology 2000, Madison Wisconsin, April 2000.
- "Results of the Neutrino Factory Physics Study", presentation to the Fermilab Physics Advisory Committee, April 2000.
- "Neutrino Factories" Plenary talk at Neutrino 2000 conference, Sudbury Canada, June 2000.
- "Neutrino Oscillations" Lecture at the CTEQ summer School, Lake Geneva Wisconsin, WI, June 2000.
- "Neutrino Factories", colloquium at Stanford Linear Accelerator Center, June 2000.
- "Neutrino Factories", colloquium at University of Illinois, Chicago, Sept. 2000.
- "Neutrino Factories", Seminar at Enrico Fermi Institute, Univ. of Chicago, Feb. 2001.
- "A Computing Facility for Accelerator Development" $\gamma\gamma$ collider workshop, Fermilab, March 2001.
- "Structure Function Measurements at Neutrino Factories", presentation at Snowmass 2001 Workshop, Snowmass, Colorado.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Colloquium, IIT February 2002.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Colloquium, University of Manitoba, March 2002.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Seminar, Michigan State University, May 2002.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Colloquium, Jefferson National Laboratory, September 2002.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Seminar, Institute for Nuclear Theory, University of Washington, November 2002.
- "Precision Measurements with Incoming and Outgoing Neutrinos", Seminar, Caltech, April 2003.
- "Run II - Are we there yet?", Invited Plenary talk at the Phenomenology Symposium, Madison Wisconsin, May 2003.

- Organized Workshop, "From Zero to Z-Zero", Fermilab, February 2004.
- Invited Conference Summary talk, 40th Rencontres de Moriond, La Thuile, Italy, March 2005. Princeton NJ, July 2005.
- "Electroweak constraints on QCD from the Tevatron", Joint CTEQ-JLAB meeting, Jefferson National Laboratory, Newport News VA, November 2005.
- Invited talk, "Electroweak and QCD Physics at the Tevatron" at the 2006 Aspen Winter Conference "Particle Physics at the Verge of Discovery", Aspen CO, February 2006.
- "D0 results on vector boson physics", CTEQ meeting, Dallas, TX, December 2006.
- Invited Talk at the Symposium Honoring Wu-Ki Tung, Michigan State University, May 2007.
- High Energy Physics seminar on Luminosity Measurements - University of Chicago, October 2007.
- Organized Workshop on Databases for MINER ν A at the Massachusetts College of Liberal Arts, November 2007.
- Invited talk to the Particle Physics Prioritization Panel, February 2008.
- Invited Plenary Talk on Tevatron Results at the Deep Inelastic Scattering Workshop, London, UK, April 2008.
- Talk on the MINER ν A experiment at the Deep Inelastic Scattering Workshop, London, UK, April 2008.
- Talk on the Project X proton upgrade at the Deep Inelastic Scattering Workshop, London, UK, April 2008.
- Seminar on Luminosity Measurements at Colliders at Manchester University, England, April 2008.
- Member, local organizing committee for the Linear Collider Workshop 2008, held in Chicago in November 2008.
- Chair, organizing committee for a workshop on computing for neutrino experiments held at Fermilab in March 2009.
- Talk, "Offline Computing for the MINERVA Neutrino Experiment", Conference on Computers in High Energy Physics, Prague, March 2009.

- Talk, “ ‘No daughter of mine is going to Caltech’ : experiences of a second generation woman scientist”, ADVANCE Talk at the University of Nebraska, Lincoln, April, 2009.
- Colloquium, ”Squeezing the Higgs”, University of Nebraska, Lincoln, April 2009.
- Seminar, ”Squeezing the Higgs”, Argonne National Laboratory, May 2009.
- Invited Plenary talk on “Electroweak Physics” at the American Physical Society Division of Particles and Fields, Detroit, July 2009.
- Member, local organizing committee for the Neutrino Summer School, held at Fermilab in July 2009.
- Colloquium, ”Squeezing the Higgs”, Louisville, September 2009.
- Organized CTEQ09 workshop at Northwestern, November 2009.
- Colloquium, ”From Zero to Z-Zero, Electroweak Physics on Many Scales”, Jefferson National Laboratory, December 2009.
- Two invited talks at the Deep Inelastic Scattering Workshop in Florence Italy, April 2010.
- Invited talk at the ”Precision Tests of the Standard Model: from Atomic Parity Violation to Parity-Violating Lepton Scattering” at the European Center for Theoretical Physics, November 2010.
- Invited talk at the Rencontres de Moriond, March 2011, declined.
- Invited talk at the Deep Inelastic Scattering Workshop in Newport News, Virginia, April 2011.
- Talk on diboson production at the International Conference on High Energy Physics, Melbourne, Australia, July 2012.
- Colloquium, “Twinkle, Twinkle, Little Loop”, Lucent Alcatel, Naperville, IL, September 2013.
- Colloquium, “Twinkle, Twinkle, Little Loop”, Notre Dame, December 2013.
- Colloquium, “Twinkle, Twinkle, Little Loop”, Oregon State University, April 2014.
- Talk on MINERvA CCQE results at the CTEQ Collaboration meeting, Northwestern University, May 2014.

- Talk on MINERvA CCQE results at the International Conference on High Energy Physics, Valencia, Spain, July 2014.
- Talk on LBNE Beam Optimization at the International Conference on High Energy Physics, Valencia, Spain, July 2014.
- Colloquium, “Neutrino Nus”, Oregon State University, May, 2015.
- Neutrinos: Past, Present, Future, Frank Merritt Festschrift, University of Chicago, May 2015.
- Colloquium, “Neutrino Nus”, University of Oregon, May, 2015.
- Colloquium, “Neutrino Nus”, University of Valencia, Spain, May 2016.
- Invited Talk “ Neutrino Nus”, Northwest Section meeting of the American Physical Society, Penticton, BC, Canada, May 2016.
- Talk ”Measurement of the anti-neutrino CCQE cross section with the MINERvA experiment”, APS Division of Nuclear Physics Meeting, Vancouver, BC, Oct. 2016.
- Colloquium, “Particle Physics”, Linn-Benton Community College, February 2017.
- Colloquium, “Neutrino Nus”, Colorado State University, April 2017.
- Invited talk summarizing ”Fixed Target Physics” at the Fermilab 50th Anniversary Symposium, June 2017.
- Talk ”Measurement of the anti-neutrino CCQE cross section with the MINERvA experiment” at the Northwest Section meeting of the American Physical Society, Tacoma, WA, June 2018.
- Talk ”Measurement of the anti-neutrino CCQE cross section with the MINERvA experiment” at the International Conference on High Energy Physics, Seoul, South Korea, July 2018.
- Talk ”The LBNF Beamline”, at the International Conference on High Energy Physics, Seoul, South Korea, July 2018.
- Invited Talk at Symposium in honor of Hugh Montgomery, Jefferson Lab, Newport News, VA, August 2018.
- Invited Plenary talk at Computers in High Energy Physics, Adelaide, Australia, Nov, 2020.

- Research Progress Seminar "Computing for the DUNE Experiment", Lawrence Berkeley Laboratory, Berkeley, CA, February 2020.
- Talk "Results from the MINERvA Medium Energy Data", International Conference on High Energy Physics, Prague, CZ (remote), July 2020.

Grants and Contracts

Support at OSU

Title: Experimental Neutrino Physics

Source: National Science Foundation

Award: NSF 1505472

Heidi Schellman (PI), Oregon State University

Project Period: 8/01/15 - 7/31/2018

Project Amount: \$450,000

Abstract: To research the mechanisms for neutrino and anti-neutrino interactions in the 1 GeV energy regime and to develop and commission detectors and algorithms capable of studying the details of the final state in these interactions.

Location: Oregon State University and Fermilab

PI Effort: 1.0 months/year

Status: Funded

Title: Simulation and Design Optimization for Neutrino Beams

Source: National Science Foundation

Award: NSF 1607241

Heidi Schellman (PI), Oregon State University

Project Period: 7/01/16 - 6/31/2019

Project Amount: \$160,000

Abstract: Improve and adapt beamline simulation codes and optimization methods for the NuMI and LBNF beamlines as an input to improved cross section measurements and to optimize the design for the LBNF/DUNE neutrino experiment.

Location: Oregon State University and Fermilab

PI Effort: 0.5 months/year

Status: Funded

Title: Experimental Neutrino Physics

Source: National Science Foundation

Award: NSF 1806849

Heidi Schellman (PI), Oregon State University

Project Period: 08/01/2018 - 07/31/2021

Project Amount: \$665,000

Abstract: Studies of anti-neutrino interaction cross sections and kinematics with the MINERvA experiment at Fermilab and design and operation of computing infrastructure for the Proto-DUNE and DUNE projects at CERN and Fermilab.

Location: Oregon State University, Fermilab and CERN

PI Effort: 1 NSF funded month in first year, 1.5 NSF funded months/year in years 2 and 3

Status: funded

Title: Joint Appointment with Fermi National Accelerator Laboratory

Source: Fermi National Accelerator Laboratory

Heidi Schellman (PI), Oregon State University

Project Period: 09/16/2019 - 06/15/2023

Project Amount: \$200,587

Abstract: Leadership of the DUNE Computing Consortium

Location: Oregon State University,

PI Effort: 2 Academic Months/year

Status: funded

Title: Essential computing and software development for the DUNE experiment

Source: Dept. of Energy, Office of Science

Heidi Schellman (PI), Oregon State University

Project Period: 07/01/2020 - 06/30/2023

Project Amount: \$3,000,000

Abstract: Design and operation of computing infrastructure for the Proto-DUNE and DUNE projects at CERN, Sanford Lab and Fermilab.

Location: Oregon State University, LBNL, SLAC, ANL, Fermilab, BNL, Colorado State, Wichita State, University of Minnesota and William and Mary.

PI Effort: 0.5 Months/year

Multi-institutional grant, OSU is the lead institution and our portion is \$458,000

Status: Funded

Title: Experimental Neutrino Physics

Source: National Science Foundation

Heidi Schellman (PI), Oregon State University

Project Period: 08/01/2021 - 07/31/2024

Project Amount: \$440,000

Abstract: Studies of anti-neutrino interaction cross sections and kinematics with the MINERvA experiment at Fermilab and design and operation of computing infrastructure for the Proto-DUNE and DUNE projects at CERN and Fermilab.

Location: Oregon State University, Fermilab and CERN

PI Effort: 1 NSF funded month/year

Status: Funded

Patent Awards/Inventions

N/A

Service

Department Service

Department Head - January 1, 2015 to June 30, 2021

Chair of the Graduate Admissions committee for Physics 2021-2022

College and University Service

Associate Dean for Administration search committee 2015-2016 (Chair)

Member of Graduate program review of the Dept. of Food Science at Oregon State

Member of Graduate School advisory committee on program metrics 2020-2021

To the profession

- 1993-1995 Member, Fermilab User's Executive Committee
- 1996-1998 Member, APS Division of Particles and Fields Executive Committee
- 1996-1999 Member, Dept. of Energy High Energy Physics Advisory Panel
- 1997-2000 Member, Outstanding Dissertation Committee, URA
- 1998 Member, Director Search Committee, Fermilab
- 1998 Member, Dean Search Committee, College of Arts and Sciences, Northwestern
- 1998-2001 Member, Large Hadron Collider Council,
European Center for Nuclear Research (CERN)
- 2000 Co-leader Fermilab Neutrino Factory Physics Study
- 2001 Member, Dean Search Committee, College of Arts and Sciences, Northwestern
- 2001-2005 Member, Fermilab Program Advisory Committee
- 2001-2002 Chair, APS Division of Particles and Fields Nominating Committee
- 2003-2006 Member, Outstanding Postdoctoral Fellow Award Committee,
Universities Research Association
- 2003 Member, Tanaka Dissertation Award Committee, APS
- 2005-2007 Member, DOE/NSF Neutrino Scientific Advisory Group (NUSAG)
- 2005-2012 Member of the Board, Fermilab Research Association
- 2008-2012 Chair, FRA Visiting Scholars Selection Committee
- 2009- D0 representative, Tevatron Electroweak Working Group (TEVEWWG)
- 2010-2013 Sanford Underground Research Facility Program Advisory Committee
- 2010 Co-leader for Strategic Partnerships in development of the NU Strategic Plan
- 2011 Member, APS Primakoff Prize Committee
- 2012-2014 Member and Secretary, C11 Committee (Particle Physics)
International Union for Pure and Applied Physics
- 2013-2016 Elected member, Minerva Executive Committee
- 2013 Fermilab Deputy Director Search Committee
- 2014 Review of the Physics Department at University of Nebraska, Lincoln
- 2014-2018 Jefferson Laboratory Program Advisory Committee

2015 Brookhaven Laboratory Nuclear and Particle Physics Program Advisory Committee
 2015 Member, NSF/DOE Nuclear Science Long Range Planning Working Group
 2015-2020 CERN Scientific Policy Committee
 2015-2017 Member and Vice Chair, C11 Commission(Particle Physics)
 International Union for Pure and Applied Physics
 2016 External review of the Dept. of Physics at the University of Kansas
 2017 External review of the Dept. of Physics at Utah State University
 2018-2021 Chair, C11 Commission
 International Union for Pure and Applied Physics
 2018-2021 Member (ex-officio), International Committee on Future Accelerators
 2018 External review of the Dept. of Physics at the University of Pittsburgh
 2018-2024 Cottrell Scholar Selection Committee
 2018-2021 Member, International Neutrino Panel
 2020- Member, Electron Ion Collider Detector Panel, Brookhaven National Laboratory
 2020 External review of the Department of Physics, College of William and Mary
 2021 Chair, APS Division of Particles and Fields Nominating Committee
 2021-2024 Member, Dept. of Energy High Energy Physics Advisory Panel

I also serve as an external reviewer for the University of Lund (Sweden) and for the European Union, Spanish, Swiss and German research councils.

Diversity and Inclusion

At Northwestern I initiated a Qualifying Exam bootcamp which led to increased retention of women and minorities. One bootcamp participant and one AGEP student that I mentored are now on the faculty at two of the Big 10 Universities.

At Oregon State, as Head, I worked with faculty and students to find an alternative to the high stakes Comprehensive Examination.

As Chair at Northwestern and Head at Oregon State I tried to institute family friendly policies, such as ending meetings in time for parents to pick up their children at daycare and extended family leave beyond the level approved at that time. (When I started at Northwestern, maternity leave was unpaid and formally required more than 9 months notice.)

I have served on the International Organizing Committees for the Lepton Photon and International Conference on High Energy Physics 2015-2021 in my role as Vice-Chair and Chair of IUPAP C11. Part of my role has been to ensure gender and nationality equity in the conference organization. The number of women and participants from emerging countries increased substantially over this time, largely thanks to the requirement that conferences report their demographics to the Commission. We also instituted a requirement that day care information be part of conference bids.

Service to the Public

Helped physics students start the Astronomy Club which now has over 250 members.

Worked with the Astronomy Club and Physics Department on Eclipse outreach. Distributed eclipse glasses and information through schools, libraries and food banks.

Non-professionally related

None in Corvallis - was historian for the Wayne Illinois Countryside Garden Club until 2014.

Awards

National and International

- 1988 Robert Rathbun Wilson Fellowship,
Fermi National Accelerator Center
- 1991 Department of Energy Outstanding Junior Investigator Award
- 1993 A.P. Sloan Fellowship
- 1995 AT&T Fellowship for outstanding tenure case
- 1997 Associated Student Government Faculty Honor Roll
- 2000 Elected Fellow of the American Physical Society
- 2000 Fermilab Employee Recognition Award for Neutrino Factory study
- 2015 APS Division of Particles and Fields Mentoring Award
- 2017 Distinguished Referee, European Physical Journal
- 2019 European Physical Society High Energy and Particle Physics Prize
(with 1,000 members of the D0 and CDF Collaborations)

State and Regional

- 2021 South Eugene High School Hall of Fame

University and Community

Professional Biography

Heidi Schellman's research focuses on the interface between electroweak and strong interaction physics and on large scale computing in support of high energy physics experiments. After three years at the University of Chicago as a member of the CCFR neutrino scattering experiment, she joined the E665 muon scattering experiment as a Wilson Fellow at Fermilab. She led an effort to build a precision vertex drift chamber capable of running in the muon beam which led to a factor of 5 improvement in the angular and momentum resolution of the experiment and precision measurements of the proton and deuteron structure functions at very low scattering angles. She was elected scientific spokesperson for the E665 collaboration in 1991 and served until the collaboration disbanded in the late 1990's.

She joined the faculty at Northwestern University in 1990 and, at the same time, the D0 proton-antiproton collider experiment at Fermilab. Her main research interest on D0 was the measurement of QCD and electroweak parameters at very high momentum transfer and their relation to lower energy measurements. Her technical contributions were development of the batch processing systems which allowed fast processing of data for the top quark discovery and the development of the SAM data access system which is still in use by most Fermilab experiments after 20 years.

She rejoined the NuTeV/CCFR collaboration in 1995 in order to measure electroweak parameters with neutrino beams. Graduate student Geralyn Zeller received the Tanaka Dissertation prize in 2003 for her doctoral work under Schellman's supervision. Among other efforts was the translation of the CCFR pattern recognition code from FORTRAN to C and the introduction of modern batch processing methods.

She served as QCD Analysis convener for the D0 collaboration from 1996 to 1998, as the D0 Software and Computing Coordinator in 2000-2001, as D0 luminosity convener from 2002-2004, as Institutional board Chair in 2007-2008 and as Electroweak Physics group convener from 2007-2009. Her D0 work culminated in the most precise measurement the mass of the W boson and a precision measurement of the Weinberg angle via parity violation in Z boson production and decay.

In addition to her experimental work she has been a long-term participant in joint experimental-theoretical work on parton distributions, as a member of the original working group that led to the Morfin-Tung parton distribution sets in the late 1980's and more recently through membership in the CTEQ collaboration. Her main work has been in standardization of the presentation of experimental results to allow precision fits to data from multiple experiments.

Schellman is currently a member of the MINERvA and DUNE neutrino collaborations. On MINERvA her group has led the study of quasi-elastic neutrino and anti-neutrino scattering. On DUNE her main effort is leadership of the international computing effort which brings together the computing resources of nine nations to process and analyze data

from the protoDUNE experiment at CERN.

Schellman has served as consultant on technical issues related to high energy physics and computing for the U.S. Department of Energy (High Energy Physics Advisory Panel and Neutrino Scientific Advisory Group) and at CERN in Switzerland.

At Northwestern, she taught both undergraduate and graduate students and originated five courses including "Computational Physics": a data analysis and programming course for sophomores intended to prepare students for research in their junior and senior years, "Qualifying Boot Camp": a course for graduate students in which provides rigorous preparation for the Departmental Qualifying exam, "Extra Dimensions": an introduction to modern physics and astronomy for general students and a new course on Research Conduct. These courses has been highly successful with students from underrepresented groups who have gone on to successful careers in academia. In 2013 she teamed with a professor of German and a professor of Electrical Engineering on a Humanities course "Einstein in the 20th Century" for non-scientists.

She served as Associate Dean for Research in the Weinberg College of Arts and Sciences from 2004-2007 and then as Chair of the Department of Physics and Astronomy at Northwestern from 2010-2014. As Associate Dean, she was able to reconfigure funding packages to increase guaranteed support for graduate students in the Humanities and Social Sciences from four to five years. High points included assisting in the formation of the doctoral program in African American Studies and the revitalization of the graduate program in Spanish and Portuguese to emphasize Latin American culture. One of her major projects as Chair was improvements in support for students in the Introductory Physics courses, through the introduction of smaller course sections and drop-in tutoring.

She moved to Oregon State University in January 2015 as Head of the Department of Physics. As Head she increased the outreach activities of the Department and encouraged initiatives to recruit and retain students across the Physics curriculum. This included expansion of peer instruction in introductory courses, experiential astrophysics courses for beginning majors, a redesign of the sophomore major courses and support for the thriving Society for Physics Students. Most recently the Department has reformed the graduate program to make it less stressful and more inclusive by adding support in the first year and eliminating the high stakes comprehensive exam. Her main role was finding resources and championing the creative initiatives of faculty. She stepped down as Head in July 2021 to resume her teaching and research.

Her research efforts are concentrated on quasi-elastic anti-neutrino scattering and building the computing infrastructure for the protoDUNE and DUNE experiments running at CERN and Fermilab. She served as Chair for Commission C11 (Particles and Fields) of the International Union for Pure and Applied Physics from 2017-2021.

Schellman, complete publication list.

- [1] A. A. Abud *et al.* [DUNE], “*Searching for solar KDAR with DUNE,*” JCAP **10**, 065 (2021) doi:10.1088/1475-7516/2021/10/065 [arXiv:2107.09109 [hep-ex]]. (citations counted in INSPIRE as of 04 Nov 2021)
- [2] B. Abi *et al.* [Muon g-2], “*Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm,*” Phys. Rev. Lett. **126**, no.14, 141801 (2021) doi:10.1103/PhysRevLett.126.141801 [arXiv:2104.03281 [hep-ex]]. (73 citations counted in INSPIRE as of 04 Nov 2021)
- [3] A. Abed Abud *et al.* [DUNE], “*Deep Underground Neutrino Experiment (DUNE) Near Detector Conceptual Design Report,*” Instruments **5**, no.4, 31 (2021) doi:10.3390/instruments5040031 [arXiv:2103.13910 [physics.ins-det]]. (8 citations counted in INSPIRE as of 02 Nov 2021)
- [4] V. M. Abazov *et al.* [TOTEM and D0], “*Odderon Exchange from Elastic Scattering Differences between pp and $p\bar{p}$ Data at 1.96 TeV and from pp Forward Scattering Measurements,*” Phys. Rev. Lett. **127**, no.6, 062003 (2021) doi:10.1103/PhysRevLett.127.062003 [arXiv:2012.03981 [hep-ex]]. (16 citations counted in INSPIRE as of 02 Nov 2021)
- [5] B. Abi *et al.* [DUNE], “*Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment,*” Eur. Phys. J. C **81**, no.4, 322 (2021) doi:10.1140/epjc/s10052-021-09007-w [arXiv:2008.12769 [hep-ex]]. (35 citations counted in INSPIRE as of 02 Nov 2021)
- [6] B. Abi *et al.* [DUNE], “*Supernova neutrino burst detection with the Deep Underground Neutrino Experiment,*” Eur. Phys. J. C **81**, no.5, 423 (2021) doi:10.1140/epjc/s10052-021-09166-w [arXiv:2008.06647 [hep-ex]]. (28 citations counted in INSPIRE as of 02 Nov 2021)
- [7] V. M. Abazov *et al.* [D0], “*Study of the normalized transverse momentum distribution of W bosons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV,*” Phys. Rev. D **103**, no.1, 012003 (2021) doi:10.1103/PhysRevD.103.012003 [arXiv:2007.13504 [hep-ex]]. (2 citations counted in INSPIRE as of 11 Oct 2021)
- [8] V. M. Abazov *et al.* [D0], “*Studies of $X(3872)$ and $\psi(2S)$ production in $p\bar{p}$ collisions at 1.96 TeV,*” Phys. Rev. D **102**, no.7, 072005 (2020) doi:10.1103/PhysRevD.102.072005 [arXiv:2007.13420 [hep-ex]]. (3 citations counted in INSPIRE as of 11 Oct 2021)

- [9] B. Abi *et al.* [DUNE], “*First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform,*” JINST **15**, no.12, P12004 (2020) doi:10.1088/1748-0221/15/12/P12004 [arXiv:2007.06722 [physics.ins-det]]. (44 citations counted in INSPIRE as of 04 Nov 2021)
- [10] B. Abi *et al.* [DUNE], “*Neutrino interaction classification with a convolutional neural network in the DUNE far detector,*” Phys. Rev. D **102**, no.9, 092003 (2020) doi:10.1103/PhysRevD.102.092003 [arXiv:2006.15052 [physics.ins-det]]. (19 citations counted in INSPIRE as of 04 Nov 2021)
- [11] B. Abi *et al.* [DUNE], “*Long-baseline neutrino oscillation physics potential of the DUNE experiment,*” Eur. Phys. J. C **80**, no.10, 978 (2020) doi:10.1140/epjc/s10052-020-08456-z [arXiv:2006.16043 [hep-ex]]. (47 citations counted in INSPIRE as of 04 Nov 2021)
- [12] A. Filkins *et al.* [MINERvA], “*Double-differential inclusive charged-current ν_μ cross sections on hydrocarbon in MINERvA at $\langle E_\nu \rangle \sim 3.5$ GeV,*” Phys. Rev. D **101**, no.11, 112007 (2020) doi:10.1103/PhysRevD.101.112007 [arXiv:2002.12496 [hep-ex]]. (14 citations counted in INSPIRE as of 29 Oct 2021)
- [13] D. Coplowe *et al.* [MINERvA], “*Probing nuclear effects with neutrino-induced charged-current neutral pion production,*” Phys. Rev. D **102**, no.7, 072007 (2020) doi:10.1103/PhysRevD.102.072007 [arXiv:2002.05812 [hep-ex]]. (15 citations counted in INSPIRE as of 27 Oct 2021)
- [14] B. Abi *et al.* [DUNE], “*Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume III: DUNE Far Detector Technical Coordination,*” JINST **15**, no.08, T08009 (2020) doi:10.1088/1748-0221/15/08/T08009 [arXiv:2002.03008 [physics.ins-det]]. (23 citations counted in INSPIRE as of 02 Nov 2021)
- [15] B. Abi *et al.* [DUNE], “*Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume I Introduction to DUNE,*” JINST **15**, no.08, T08008 (2020) doi:10.1088/1748-0221/15/08/T08008 [arXiv:2002.02967 [physics.ins-det]]. (140 citations counted in INSPIRE as of 04 Nov 2021)
- [16] B. Abi *et al.* [DUNE], “*Deep Underground Neutrino Experiment (DUNE), Far Detector Technical Design Report, Volume IV: Far Detector Single-phase Technology,*” JINST **15**, no.08, T08010 (2020) doi:10.1088/1748-0221/15/08/T08010 [arXiv:2002.03010 [physics.ins-det]]. (63 citations counted in INSPIRE as of 02 Nov 2021)

- [17] M. F. Carneiro *et al.* [MINERvA], “*High-Statistics Measurement of Neutrino Quasielasticlike Scattering at 6 GeV on a Hydrocarbon Target,*” *Phys. Rev. Lett.* **124**, no.12, 121801 (2020) doi:10.1103/PhysRevLett.124.121801 [arXiv:1912.09890 [hep-ex]]. (17 citations counted in INSPIRE as of 28 Oct 2021)
- [18] T. Cai *et al.* [MINERvA], “*Nucleon binding energy and transverse momentum imbalance in neutrino-nucleus reactions,*” *Phys. Rev. D* **101**, no.9, 092001 (2020) doi:10.1103/PhysRevD.101.092001 [arXiv:1910.08658 [hep-ex]]. (17 citations counted in INSPIRE as of 28 Oct 2021)
- [19] T. Le *et al.* [MINERvA], “*Measurement of $\bar{\nu}_\mu$ Charged-Current Single π^- Production on Hydrocarbon in the Few-GeV Region using MINERvA,*” *Phys. Rev. D* **100**, no.5, 052008 (2019) doi:10.1103/PhysRevD.100.052008 [arXiv:1906.08300 [hep-ex]]. (10 citations counted in INSPIRE as of 27 Oct 2021)
- [20] V. M. Abazov *et al.* [D0], “*Properties of $Z_c^\pm(3900)$ Produced in $p\bar{p}$ Collision,*” *Phys. Rev. D* **100**, 012005 (2019) doi:10.1103/PhysRevD.100.012005 [arXiv:1905.13704 [hep-ex]]. (13 citations counted in INSPIRE as of 11 Oct 2021)
- [21] E. Valencia *et al.* [MINERvA], “*Constraint of the MINERvA medium energy neutrino flux using neutrino-electron elastic scattering,*” *Phys. Rev. D* **100**, no.9, 092001 (2019) doi:10.1103/PhysRevD.100.092001 [arXiv:1906.00111 [hep-ex]]. (40 citations counted in INSPIRE as of 28 Oct 2021)
- [22] P. Stowell *et al.* [MINERvA], “*Tuning the GENIE Pion Production Model with MINERvA Data,*” *Phys. Rev. D* **100**, no.7, 072005 (2019) doi:10.1103/PhysRevD.100.072005 [arXiv:1903.01558 [hep-ex]]. (27 citations counted in INSPIRE as of 02 Nov 2021)
- [23] M. Elkins *et al.* [MINERvA], “*Neutron measurements from antineutrino hydrocarbon reactions,*” *Phys. Rev. D* **100**, no.5, 052002 (2019) doi:10.1103/PhysRevD.100.052002 [arXiv:1901.04892 [hep-ex]]. (19 citations counted in INSPIRE as of 02 Nov 2021)
- [24] D. Ruterbories *et al.* [MINERvA], “*Measurement of Quasielastic-Like Neutrino Scattering at $\langle E_\nu \rangle \sim 3.5$ GeV on a Hydrocarbon Target,*” *Phys. Rev. D* **99**, no.1, 012004 (2019) doi:10.1103/PhysRevD.99.012004 [arXiv:1811.02774 [hep-ex]]. (40 citations counted in INSPIRE as of 02 Nov 2021)
- [25] G. N. Perdue *et al.* [MINERvA], “*Reducing model bias in a deep learning classifier using domain adversarial neural networks in the MINERvA experiment,*” *JINST* **13**, no.11, P11020 (2018) doi:10.1088/1748-0221/13/11/P11020 [arXiv:1808.08332 [physics.data-an]]. (8 citations counted in INSPIRE as of 27 Oct 2021)

- [26] V. M. Abazov *et al.* [D0], “*Evidence for $Z_c^\pm(3900)$ in semi-inclusive decays of b -flavored hadrons,*” Phys. Rev. D **98**, no.5, 052010 (2018) doi:10.1103/PhysRevD.98.052010 [arXiv:1807.00183 [hep-ex]]. (27 citations counted in INSPIRE as of 02 Nov 2021)
- [27] X. G. Lu *et al.* [MINERvA], “*Measurement of final-state correlations in neutrino muon-proton mesonless production on hydrocarbon at $\langle E_\nu \rangle = 3$ GeV,*” Phys. Rev. Lett. **121**, no.2, 022504 (2018) doi:10.1103/PhysRevLett.121.022504 [arXiv:1805.05486 [hep-ex]]. (46 citations counted in INSPIRE as of 02 Nov 2021)
- [28] R. Gran *et al.* [MINERvA], “*Antineutrino Charged-Current Reactions on Hydrocarbon with Low Momentum Transfer,*” Phys. Rev. Lett. **120**, no.22, 221805 (2018) doi:10.1103/PhysRevLett.120.221805 [arXiv:1803.09377 [hep-ex]]. (22 citations counted in INSPIRE as of 02 Nov 2021)
- [29] T. A. Aaltonen *et al.* [CDF and D0], “*Tevatron Run II combination of the effective leptonic electroweak mixing angle,*” Phys. Rev. D **97**, no.11, 112007 (2018) doi:10.1103/PhysRevD.97.112007 [arXiv:1801.06283 [hep-ex]]. (43 citations counted in INSPIRE as of 25 Oct 2021)
- [30] C. E. Patrick *et al.* [MINERvA], “*Measurement of the Muon Antineutrino Double-Differential Cross Section for Quasielastic-like Scattering on Hydrocarbon at $E_\nu \sim 3.5$ GeV,*” Phys. Rev. D **97**, no.5, 052002 (2018) doi:10.1103/PhysRevD.97.052002 [arXiv:1801.01197 [hep-ex]]. (42 citations counted in INSPIRE as of 02 Nov 2021)
- [31] V. M. Abazov *et al.* [D0], “*Study of the $X^\pm(5568)$ state with semileptonic decays of the B_s^0 meson,*” Phys. Rev. D **97**, no.9, 092004 (2018) doi:10.1103/PhysRevD.97.092004 [arXiv:1712.10176 [hep-ex]]. (37 citations counted in INSPIRE as of 26 Oct 2021)
- [32] J. Albrecht *et al.* [HEP Software Foundation], “*A Roadmap for HEP Software and Computing R&D for the 2020s,*” Comput. Softw. Big Sci. **3**, no.1, 7 (2019) doi:10.1007/s41781-018-0018-8 [arXiv:1712.06982 [physics.comp-ph]]. (106 citations counted in INSPIRE as of 04 Nov 2021)
- [33] A. Mislivec *et al.* [MINERvA], “*Measurement of total and differential cross sections of neutrino and antineutrino coherent π^\pm production on carbon,*” Phys. Rev. D **97**, no.3, 032014 (2018) doi:10.1103/PhysRevD.97.032014 [arXiv:1711.01178 [hep-ex]]. (24 citations counted in INSPIRE as of 02 Nov 2021)
- [34] V. M. Abazov *et al.* [D0], “*Measurement of the Effective Weak Mixing Angle in $p\bar{p} \rightarrow Z/\gamma^* \rightarrow \ell^+\ell^-$ Events,*” Phys. Rev. Lett. **120**, no.24, 241802 (2018) doi:10.1103/PhysRevLett.120.241802 [arXiv:1710.03951 [hep-ex]]. (8 citations counted in INSPIRE as of 25 Oct 2021)

- [35] T. A. Aaltonen *et al.* [CDF and D0], “*Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron*,” Phys. Rev. Lett. **120**, no.4, 042001 (2018) doi:10.1103/PhysRevLett.120.042001 [arXiv:1709.04894 [hep-ex]]. (24 citations counted in INSPIRE as of 11 Oct 2021)
- [36] O. Altinok *et al.* [MINERvA], “*Measurement of ν_μ charged-current single π^0 production on hydrocarbon in the few-GeV region using MINERvA*,” Phys. Rev. D **96**, no.7, 072003 (2017) doi:10.1103/PhysRevD.96.072003 [arXiv:1708.03723 [hep-ex]]. (43 citations counted in INSPIRE as of 02 Nov 2021)
- [37] M. Betancourt *et al.* [MINERvA], “*Direct Measurement of Nuclear Dependence of Charged Current Quasielasticlike Neutrino Interactions Using MINERvA*,” Phys. Rev. Lett. **119**, no.8, 082001 (2017) doi:10.1103/PhysRevLett.119.082001 [arXiv:1705.03791 [hep-ex]]. (32 citations counted in INSPIRE as of 02 Nov 2021)
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