Michael Eads

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Date of birth: 25 February 1975
Place of birth: Morrison, IL USA
Citizenship: USA

Academic Positions

2016-present	Associate Professor, Northern Illinois University
2012-2016	Assistant Professor, Northern Illinois University

Member of the D-Zero collaboration at the Fermilab Tevatron. Active in the muon identification and algorithms group, and the Higgs and New Phenomena physics groups. Currently co-convener of the muon identification software group, New Phenomena physics contact for the experiment and co-chair of an editorial board responsible for the internal experimental review of certain electroweak physics analyses.

Member of the new muon *g*-2 experiment at Fermilab (E989). Leader of the NIU *g*-2 group, which consists of three faculty members, three graduate students, and several undergraduate students. Made significant contributions to the design, assembly, and quality control testing of the experiment's straw tube tracking system. Level 3 and operations manager for experiment's slow control systems.

Cooperating Member of the CMS experiment at the CERN LHC. Currently leading the NIU group's analysis efforts in the $H \rightarrow ZZ \rightarrow$ 4 lepton channel.

Discipline director for secondary teacher certification for chemistry and physics in the Center for Secondary Science and Math Education. Performing physics education research and implementing course transformation in a section of a general physics course.

2010 – 2012	Research Assistant Professor, University of Nebraska – Lincoln.
2005 – 2010	Postdoctoral Research Associate, University of Nebraska – Lincoln. (Based at Fermi National Accelerator Laboratory.)

Member of the D-Zero collaboration at the Fermilab Tevatron. Performed a search for charged massive stable particles which was published in April 2009. Convener of the muon identification and algorithms group from September 2006

	to September 2009. Convener of the New Phenomena physics group from 2010 to 2012. Member of several committees in the experiment. Performed a high-mass Higgs boson search, published in February 2010. Member of the CMS collaboration at the CERN large hadron collider. Was responsible for module testing and grading during the construction of the Forward Pixel Detector at Fermilab. Was responsible for remote tracker data quality monitoring shifts at Fermilab. Was responsible for databases and related software for the pixel detector.
2003 – 2005	Research associate, Northern Illinois University. Member of the D-Zero experiment. Performed a search for charged massive stable particles at D-Zero. Active in the muon identification and algorithms group. System administrator for the Northern Illinois University physics department.
2002 – 2003 Summer 2001 Summer 2000	Research assistant, Northern Illinois University. Member of the D-Zero experiment. Active in the muon hardware and software groups. Measured time-of-flight corrections for the muon scintillators.

Education

2002 - 2005	Northern Illinois University. Ph.D., experimental high energy physics. (August 2005) Thesis: “A Search for Charged Massive Stable Particles at DZero” Adviser: D. Hedin.
2000 - 2002	Northern Illinois University. M.S. Physics. (May 2002) Thesis: "Scalar Tau Lepton Production and Detection at the D-Zero Detector for a Gauge Mediated Supersymmetry Breaking Model with Scalar Tau Lepton Next-to-Lightest Supersymmetric Particle". Advisor: M. Fortner.
1998 - 2000	Northern Illinois University. B.S. Physics. Summa Cum Laude
1996 - 1998	Kishwaukee Community College. A.S.

Teaching Positions

2003 - 2012	Adjunct Faculty, University of St. Francis, Natural Science Department, Joliet, IL. Taught algebra- and calculus-based general physics courses.
Summer 2003	Part-time Instructor, College of DuPage, Natural Sciences Department, Glen Ellyn, IL. Taught the first quarter of a calculus-based general physics course.
2000 - 2003	Science Teacher. Lincoln-Way High School, New Lenox, IL. Taught all levels of physics, as well as chemistry and astronomy.

Selected Publications

1. The Muon System of the Run II D0 Detector, V.M. Abazov, *et al.* (The D0 Muon Group), Nucl. Inst. Meth. A **552**, 372-398 (2005).

2. The CMS Experiment at the CERN LHC, S. Chatrchyan, *et al*. (The CMS Collaboration), JINST **3**, S08004 (2008).

3. Search for Long-Lived Charged Massive Particles with the D0 Detector, V.M. Abazov, *et al.* (The D0 Collaboration), Phys. Rev. Lett. **102**, 161802 (2009).

4. Search for Higgs Boson Production in Dilepton and Missing Energy Final States with 5.4 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96 TeV, V.M. Abazov, *et al.* (The D0 Collaboration), Phys. Rev. Lett. **104**, 061804 (2010).

5. Combination of Tevatron Searches for the Standard Model Higgs Boson in the W^+W^- Decay Mode, T. Aaltonen, *et al.* (The D0 and CDF collaboration), Phys. Rev. Lett. **104**, 061802 (2010).

6. Combined Tevatron upper limit on $gg \rightarrow H \rightarrow W^+W^-$ and constraints on the Higgs boson mass in fourth-generation fermion models, T. Aaltonen, *et al*. (The CDF and D0 Collaborations), Phys. Rev. D **82**, 011102 (2010).

7. A search for charged massive long-lived particles, V.M. Abazov, *et al.* (The D0 Collaboration), Phys. Rev. Lett. **108**, 121802 (2012).

8. Search for charged massive long-lived particles at $\sqrt{s}$ = 1.96 TeV, V.M. Abazov, *et al.* (The D0 Collaboration), Phys. Rev. D **87**, 052011 (2013).

9. Muon reconstruction and identification with the Run II D0 Detector, V.M. Abazov, *et al.* (The D0 Collaboration), Nucl. Instrum. Methods in Phys. Res. Sect. A, **737**, 281 (2014).

   (Not included are ten additional publications that were supervised as the co-convener of the New Phenomena physics group and eleven publications that were published after internal experiment review as an editorial board chair. A full publication list is available on request and includes over 300 publications as a member of the D0 Run II experiment and over 300 publications as a member of the CMS experiment.)

Non-Refereed Publications

1. *Non-susy Searches at the Tevatron*, Proceedings of the XLIII Rencontres de Moriond – QCD and High Energy Interactions, edited by É. Augé, B. Klima, B. Pietrzyk, and J.T.T. Vân, Thê giói Publishers (2008).

2. *Electroweak and QCD Results from D0*, Fundamental Interactions: Proceedings of the 20th Lake Louise Winter Institute, edited by A. Astbury, *et al*., World Scientific (2006).

(arXiv:hep-ex/0506054)

3. *Fundamental Physics at the Intensity Frontier*, J. L. Hewett, *et al*., proceedings from the 2011 workshop on Fundamental Physics at the Intensity Frontier (2012). (arXiv: 1205.2671)

4. *Recent results from D0*, proceedings from the 2013 New Trends in HEP conference, Alushta, Crimea, Ukraine, edited by L. Jenkovsky, D. Savchenko, and G. Stelmakh, National Academy of Sciences of Ukraine (2013).

5. *Muon (g-2) Conceptual Design Report*, J. Grange, *et al.* (The E-989 Collaboration) (2013). (gm2-docDB #934)

6. *Muon (g-2) Technical Design Report*, J. Grange, *et al.* (The E-989 Collaboration) (2015). (arXiv: 1501.06858)

7. *New Experiments to Measure the Muon Anomalous Gyromagnetic Ratio*, M. Eads, proceedings from the 2015 FPCP Conference, https://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=248#session-2448.

8. *The Single Phase ProtoDUNE Technical Design Report*, B. Abi, *et al.* (2017). (arXiv: 1706.07081)

Conference and Workshop Presentations

Nov 2016 "Slow Controls and Monitoring", presentation at the *g*-2 Computing Readiness Review, Batavia, IL.

Oct 2016 "The Slow Controls System for the Muon *g*-2 Experiment at Fermilab", contributed talk at the APS Prairie Section meeting, DeKalb, IL.

Jul 2016 "Data-Driven Efforts to Improve General Physics at NIU", contributed talk at Summer 2016 AAPT meeting, Sacramento, CA.

Apr 2016 "A Learning Community of Freshman Engineering Students at NIU", contributed talk at the Illinois Section of the AAPT spring meeting, Urbana, IL.

May 2015 "New Experiments to Measure the Muon Anomalous Gyromagnetic Ratio", invited talk at the Flavor Physics and CP Violation Conference (FPCP 2015), Nagoya, Japan

Apr 2015 "The Slow Controls System of the New Muon *g*-2 Experiment at Fermilab", contributed talk at the APS April meeting, Baltimore, MD

Mar 2015 "Discovering New Physics with a Precision Measurement of the Muon Anomalous Gyromagnetic Ratio", NIU physics department colloquium

Jan 2015 "A Learning Community for Freshman Engineering Students", contributed talk

presented at the Winter 2015 AAPT meeting, San Diego, CA

Feb 2014 "Measuring the Anomalous Muon Gyromagnetic Ratio: A Window to New Physics", NIU physics department colloquium

Sep 2013 "Recent Results from D0", invited talk the New Trends in HEP conference, Alushta, Crimea, Ukraine

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External Funding

"Design Evaluation and Quality Control Testing of a g-2 Tracker", co-PI (with PI Nick Pohlman). Contract from Fermi National Accelerator Laboratory in the amount of $81,075. Awarded November 2013.

"Searching for Physics Beyond the Standard Model at the Intensity Frontier", PI (with co-PI Nick Pohlman). Grant from the Department of Energy, Office of Science, Office of High Energy Physics in the amount of $325,000. Awarded in July 2014 and extends through March 2018.

"DUNE LAr TPC Detector", co-PI (with PI V. Zutshi). Contract from Brookhaven National Laboratory in the amount of $253,523. Awarded in March 2016 and extends through September 2017.

"Project Controls Specialist Support for the Muon *g*-2 Experiment", PI. Contract from Fermi National Accelerator Laboratory in the amount of $177, 478. Awarded in July 2016 and extends through December 2017.

Total external funding: $837,076

Graduate Students Supervised

J. Paschal – Graduated with an M.S. in August 2014 with a thesis entitled "Design, Construction, and Implementation of Tension Testing for a Straw Tube Tracking System for the E989 Muon g-2 Experiment"

M. Shenk – Graduated with an M.S. in December 2014 with a thesis entitled "A Straw Tube Tracking Detector for the New Muon g-2 E989 Experiment"

D. Stange – Graduated with an M.S. (education emphasis, non-thesis) in December 2015

M. McEvoy – Graduated with an M.S. in May 2016 with a thesis entitled "The Slow Control System for the Fermilab g-2 E989 Experiment"

A. Epps – Graduated with an M.S. in August 2017 with a thesis entitled "A Dedicated Quality Control Test Stand for the g-2 Tracker System"

S. Zitnik – Graduated with an M.S. in August 2017 with a thesis entitled "Ability Group Configuration for the High School Physics Classroom"

Currently supervising one doctoral student performing research on the Muon g-2 experiment at Fermilab. Anticipated graduation date is 2019.

Currently supervising one doctoral student performing research on the CMS experiment at CERN. Anticipated graduation date is 2020.

Currently supervising three masters students (with a physics education emphasis) performing physics education research. Anticipated graduation dates are in 2018.

Undergraduate Student Research

A. Epps – Funded through the URA and URAP programs, as well as external funding, to perform research related to the Muon g-2 Experiment. 2013 – 2014

O. Escalante-Aguirre – Funded through the URA, URAP, and Honors Summer Scholars programs, as well as external funding, to perform research related to the Muon g-2 Experiment. 2013-2015

J. Muse – Funded through the URAP program, as well as external funding, to perform research related to the Muon g-2 Experiment. 2014-2016

W. Hashimoto – Funded through the Research Rookies, McKearn Fellow, Student Engagement Fund, and Honors Summer Scholar programs to perform physics education research. 2014-2017

T. Stringer – Funded through the Student Engagement Fund to perform research related to the Muon g-2 Experiment. 2015

G. Dunn – Funded though the Student Engagement Fund and external funding to perform research related to the Muon g-2 experiment. 2016-present

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Complete Publication List

1) Tevatron Run II combination of the effective leptonic electroweak mixing angle
By CDF and D0 Collaborations (Timo Antero Aaltonen et al.).
arXiv:1801.06283 [hep-ex].

2) Study of the ${X^\pm(5568)}$ state with semileptonic decays of the ${B_s^0}$ meson
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1712.10176 [hep-ex].

3) Measurement of the Effective Weak Mixing Angle in $p\bar{p}\rightarrow Z/\gamma^* \rightarrow \ell^+\ell^-$ Events
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1710.03951 [hep-ex].

4) Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron
By CDF and D0 Collaborations (Timo Antero Aaltonen et al.).
arXiv:1709.04894 [hep-ex].
10.1103/PhysRevLett.120.042001.
Phys.Rev.Lett., Phys.Rev.Lett. 120 (2018) 042001.

5) Combination of D0 measurements of the top quark mass
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1703.06994 [hep-ex].
10.1103/PhysRevD.95.112004.
Phys.Rev. D95 (2017) no.11, 112004.

6) Measurement of the direct CP violating charge asymmetry in $B^\pm \rightarrow \mu^\pm \nu_\mu D^{0}$

decays
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1608.00863 [hep-ex].
10.1103/PhysRevD.95.031101.
Phys.Rev. D95 (2017) no.3, 031101.

7) Measurement of top quark polarization in $t \overline{t}$ lepton+jets final states
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1607.07627 [hep-ex].
10.1103/PhysRevD.95.011101.
Phys.Rev. D95 (2017) no.1, 011101.

8) Measurement of the Top Quark Mass Using the Matrix Element Technique in Dilepton Final States
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1606.02814 [hep-ex].
10.1103/PhysRevD.94.032004.
Phys.Rev. D94 (2016) no.3, 032004.

9) Measurement of the inclusive $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV and determination of the top quark pole mass
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1605.06168 [hep-ex].
10.1103/PhysRevD.94.092004.
Phys.Rev. D94 (2016) 092004.

10) Measurement of the Forward-Backward Asymmetries in the Production of Ξ and Ω Baryons in $p\overline{p}$ Collisions
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1605.03513 [hep-ex].
10.1103/PhysRevD.93.112001.
Phys.Rev. D93 (2016) no.11, 112001.

11) B^{0}_{s} lifetime measurement in the CP-odd decay channel $B^{0}_{s} \to J/\psi\mbox{ }f_{0}(980)$
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1603.01302 [hep-ex].
10.1103/PhysRevD.94.012001.
Phys.Rev. D94 (2016) no.1, 012001.

12) Evidence for a $B_s^0 \pi^\pm$ state
By D0 Collaboration (V.M. Abazov et al.).
arXiv:1602.07588 [hep-ex].
10.1103/PhysRevLett.117.022003.
Phys.Rev.Lett. 117 (2016) no.2, 022003.

13) Measurement of Spin Correlation between Top and Antitop Quarks Produced in $p\bar{p}$ Collisions at $\sqrt{s}$ = 1.96 TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1512.08818 [hep-ex].
10.1016/j.physletb.2016.03.053.
Phys.Lett. B757 (2016) 199-206.

14) Study of double parton interactions in diphoton + dijet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1512.05291 [hep-ex].
10.1103/PhysRevD.93.052008.
Phys.Rev. D93 (2016) no.5, 052008.

15) Measurement of the forward-backward asymmetry of Λ and $\bar{\Lambda}$ production in $p

\bar{p}$ collisions
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1511.05113 [hep-ex].
10.1103/PhysRevD.93.032002.
Phys.Rev. D93 (2016) no.3, 032002.

16) Evidence for simultaneous production of J/ψ and Υ mesons
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1511.02428 [hep-ex].
10.1103/PhysRevLett.116.082002.
Phys.Rev.Lett. 116 (2016) no.8, 082002.

17) Inclusive Production of the X(4140) State in $p \overline p$ Collisions at D0
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1508.07846 [hep-ex].
10.1103/PhysRevLett.115.232001.
Phys.Rev.Lett. 115 (2015) no.23, 232001.

18) Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1508.03322 [hep-ex].
10.1016/j.physletb.2015.10.086.
Phys.Lett. B752 (2016) 18-26.

19) Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from $t\bar t$ production at the Tevatron
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1507.05666 [hep-ex].
10.1103/PhysRevD.92.052007.
Phys.Rev. D92 (2015) 052007.

20) The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab
By Muon g-2 Collaboration (I. Logashenko et al.).
10.1063/1.4917553.
J.Phys.Chem.Ref.Data 44 (2015) no.3, 031211.

21) Search for Violation of CPT and Lorentz invariance in ${B_s^0}$ meson oscillations
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1506.04123 [hep-ex].
10.1103/PhysRevLett.116.019901, 10.1103/PhysRevLett.115.161601.
Phys.Rev.Lett. 115 (2015) no.16, 161601, Addendum: Phys.Rev.Lett. 116 (2016) no.1, 019901.

22) Tevatron Combination of Single-Top-Quark Cross Sections and Determination of the Magnitude of the Cabibbo-Kobayashi-Maskawa Matrix Element $\bf V_{tb}$
By CDF and D0 Collaborations (Timo Antero Aaltonen et al.).
arXiv:1503.05027 [hep-ex].
10.1103/PhysRevLett.115.152003.
Phys.Rev.Lett. 115 (2015) no.15, 152003.

23) Measurement of the Forward-Backward Asymmetry in Λ_b^0 and $\bar{\Lambda}_b^0$ Baryon Production in $p\bar{p}$ Collisions at $\sqrt{s}$=1.96 TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1503.03917 [hep-ex].
10.1103/PhysRevD.91.072008.
Phys.Rev. D91 (2015) no.7, 072008.

24) Tevatron Constraints on Models of the Higgs Boson with Exotic Spin and Parity Using Decays to Bottom-Antibottom Quark Pairs

By CDF and D0 Collaborations (T. Aaltonen et al.).
arXiv:1502.00967 [hep-ex].
10.1103/PhysRevLett.114.151802.
Phys.Rev.Lett. 114 (2015) no.15, 151802.

25) Muon (g-2) Technical Design Report
By Muon g-2 Collaboration (J. Grange et al.).
arXiv:1501.06858 [physics.ins-det].

26) Precision measurement of the top-quark mass in lepton$+$jets final states
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1501.07912 [hep-ex].
10.1103/PhysRevD.91.112003.
Phys.Rev. D91 (2015) no.11, 112003.

27) Measurement of the ratio of inclusive cross sections $\sigma (p\bar{p} \rightarrow Z+2~b \text{jets}) / \sigma (p\bar{p} \rightarrow Z+ \text{2 jets})$ in $p\bar{p}$ collisions at $\sqrt s=1.96$ TeV
By D0 Collaboration (V.M. Abazov et al.).
arXiv:1501.05325 [hep-ex].
10.1103/PhysRevD.91.052010.
Phys.Rev. D91 (2015) no.5, 052010.

28) Measurement of the $W+b$-jet and $W+c$-jet differential production cross sections in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1412.5315 [hep-ex].
10.1016/j.physletb.2015.02.012.
Phys.Lett. B743 (2015) 6-14.

29) Measurement of the electron charge asymmetry in $\boldsymbol{p\bar{p}\rightarrow W+X \rightarrow e\nu +X}$ decays in $\boldsymbol{p\bar{p}}$ collisions at $\boldsymbol{\sqrt{s}=1.96}$ TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1412.2862 [hep-ex].
10.1103/PhysRevD.91.032007, 10.1103/PhysRevD.91.079901.
Phys.Rev. D91 (2015) no.3, 032007, Erratum: Phys.Rev. D91 (2015) no.7, 079901.

30) Measurement of the Forward-Backward Asymmetry in the Production of $B^{\pm}$ Mesons in $p\bar{p}$ Collisions at $\sqrt{s}$ = 1.96 TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1411.3021 [hep-ex].
10.1103/PhysRevLett.114.051803.
Phys.Rev.Lett. 114 (2015) 051803.

31) Measurement of the ϕ^*_η distribution of muon pairs with masses between 30 and 500 GeV in 10.4 fb^{-1} of $p\bar{p}$ collisions
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1410.8052 [hep-ex].
10.1103/PhysRevD.91.072002.
Phys.Rev. D91 (2015) no.7, 072002.

32) Measurement of the B_s^0 lifetime in the flavor-specific decay channel $B_s^0 \to D_s^- \mu^+\nu X$
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1410.1568 [hep-ex].
10.1103/PhysRevLett.114.062001.
Phys.Rev.Lett. 114 (2015) no.6, 062001.

33) Measurement of the direct CP-violating parameter A_{CP} in the decay $D^+ \to K^-\pi^+\pi^+$
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).

arXiv:1408.6848 [hep-ex].
10.1103/PhysRevD.90.111102.
Phys.Rev. D90 (2014) no.11, 111102.

34) Measurement of the effective weak mixing angle in $p\bar{p}\rightarrow Z/\gamma^{*}\rightarrow e^{+}e^{-}$ events
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1408.5016 [hep-ex].
10.1103/PhysRevLett.115.041801.
Phys.Rev.Lett. 115 (2015) no.4, 041801.

35) Constraints on Models for the Higgs Boson with Exotic Spin and Parity in $\boldsymbol{VH\rightarrow Vb\bar{b}}$ Final States
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1407.6369 [hep-ex].
10.1103/PhysRevLett.113.161802.
Phys.Rev.Lett. 113 (2014) 161802.

36) Measurement of the Electric Charge of the Top Quark in $\boldsymbol{t\bar{t}}$ Events
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1407.4837 [hep-ex].
10.1103/PhysRevD.90.051101, 10.1103/PhysRevD.90.079904.
Phys.Rev. D90 (2014) no.5, 051101, Erratum: Phys.Rev. D90 (2014) no.7, 079904.

37) Observation and studies of double J/ψ production at the Tevatron
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1406.2380 [hep-ex].
10.1103/PhysRevD.90.111101.
Phys.Rev. D90 (2014) no.11, 111101.

38) Measurement of the differential $\gamma+2~b$-jet cross section and the ratio σ($\gamma+2~b$-jets)/σ($\gamma+b$-jet) in $p\bar{p}$ collisions at $\sqrt{s}$ = 1.96 TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1405.3964 [hep-ex].
10.1016/j.physletb.2014.09.007.
Phys.Lett. B737 (2014) 357-365.

39) Precision measurement of the top-quark mass in lepton+jets final states
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1405.1756 [hep-ex].
10.1103/PhysRevLett.113.032002.
Phys.Rev.Lett. 113 (2014) 032002.

40) Measurement of the forward-backward asymmetry in top quark-antiquark production in ppbar collisions using the lepton+jets channel
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1405.0421 [hep-ex].
10.1103/PhysRevD.90.072011.
Phys.Rev. D90 (2014) 072011.

41) Measurement of the forward-backward asymmetry in the distribution of leptons in $t\bar{t}$ events in the lepton$+$jets channel
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1403.1294 [hep-ex].
10.1103/PhysRevD.90.072001.
Phys.Rev. D90 (2014) 072001.

42) Observation of s-channel production of single top quarks at the Tevatron

By CDF and D0 Collaborations (Timo Antero Aaltonen et al.).
arXiv:1402.5126 [hep-ex].
10.1103/PhysRevLett.112.231803.
Phys.Rev.Lett. 112 (2014) 231803.

43) Double parton interactions in $\gamma+3$ jet and $\gamma+b/cjet+2$ jet events in $p \bar p$ collisions at $\sqrt s=1.96$ TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1402.1550 [hep-ex].
10.1103/PhysRevD.89.072006.
Phys.Rev. D89 (2014) no.7, 072006.

44) Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at sqrt(s) = 7 TeV
By CMS Collaboration (Serguei Chatrchyan et al.).
arXiv:1402.1521 [hep-ex].
10.1007/JHEP06(2014)120.
JHEP 1406 (2014) 120.

45) Measurement of inclusive W and Z boson production cross sections in pp collisions at $\sqrt{s}$ = 8 TeV
By CMS Collaboration (Serguei Chatrchyan et al.).
arXiv:1402.0923 [hep-ex].
10.1103/PhysRevLett.112.191802.
Phys.Rev.Lett. 112 (2014) 191802.

46) Measurement of differential $t\bar{t}$ production cross sections in $p\bar{p}$ collisions
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1401.5785 [hep-ex].
10.1103/PhysRevD.90.092006.
Phys.Rev. D90 (2014) no.9, 092006.

47) Electron and Photon Identification in the D0 Experiment
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1401.0029 [hep-ex].
10.1016/j.nima.2014.03.013.
Nucl.Instrum.Meth. A750 (2014) 78-95.

48) Improved b quark jet identification at the D0 experiment
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1312.7623 [hep-ex].
10.1016/j.nima.2014.04.087.
Nucl.Instrum.Meth. A763 (2014) 290-303.

49) Jet energy scale determination in the D0 experiment
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1312.6873 [hep-ex].
10.1016/j.nima.2014.05.044.
Nucl.Instrum.Meth. A763 (2014) 442-475.

50) Measurement of the W Boson Production Charge Asymmetry in $p\bar{p}\rightarrow W+X \rightarrow e\nu +X$ Events at $\sqrt{s}=1.96$ TeV
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).
arXiv:1312.2895 [hep-ex].
10.1103/PhysRevLett.112.151803, 10.1103/PhysRevLett.114.049901.
Phys.Rev.Lett. 112 (2014) no.15, 151803, Erratum: Phys.Rev.Lett. 114 (2015) no.4, 049901.

51) Measurement of the direct CP-violating charge asymmetry in ${D_s^\pm \rightarrow \phi \pi^{\pm}}$ decays
By D0 Collaboration (Victor Mukhamedovich Abazov et al.).

arXiv:1312.0741 [hep-ex].
10.1103/PhysRevLett.112.111804.
Phys.Rev.Lett. 112 (2014) no.11, 111804.

52) Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at $\sqrt{s}$=7 TeV
By CMS Collaboration (Serguei Chatrchyan et al.).
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