

WAYNE STATE UNIVERSITY

Professional Record
Faculty

NAME: Robert Francis Harr
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DATE PREPARED: 8/21/95
DATE REVISED: 2/18/2022
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DEPARTMENT/COLLEGE: Physics and Astronomy / Liberal Arts and Science

PRESENT RANK & DATE OF RANK: Professor / August, 2010

WSU APPOINTMENT HISTORY:

Year Appointed/Rank: August 2010 / Professor
August 2003 / Associate Professor
August 1996 / Assistant Professor
November 1995 / Assistant Professor Research
Year Awarded Tenure: August 2003
Year Promoted to Associate Professor: August 2003
Year Promoted to Full Professor: August 2010

CITIZEN OF: U.S.A.

EDUCATION:

Baccalaureate: Carnegie-Mellon University, Pittsburgh, PA, May 1984.
Graduate: U.C. Berkeley, Berkeley, CA, July 1990.
Postgraduate (postdoctoral): Yale University, New Haven, CT.

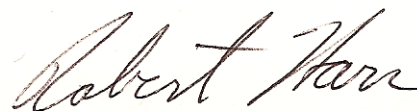
FACULTY APPOINTMENTS AT OTHER INSTITUTIONS (Years and Rank):

[Not administrative appointments; see below.]

1990 - 1994: Associate Research Scientist, Yale University.
1994 - 1995: Research Scientist, Yale University.

PROFESSIONAL SOCIETY MEMBERSHIP(S):

American Physical Society
American Association for the Advancement of Science
Detroit Metropolitan Area Physics Teachers



HONORS/AWARDS:

Fellowship, Superconducting Super Collider, 1993 - 1994.
WSU Faculty Research Award, 1997.
Visiting Scientist Honorarium, DESY Laboratory, Hamburg, Germany, 2000.
WSU College of Science Teaching Award, 2002.
Richard Barber Faculty Recognition Award, 2015.
Student Senate Student Success Award for Faculty Excellence, 2019.
CLAS Teaching Innovation, Development and Excellence (TIDE) Award, 2021.

I. TEACHING

A. Years at Wayne State
1996 - present.

B. Courses Taught at Wayne State in Last Five Years

1. Undergraduate

Physics 2180 lecture:	W22, W19, F18
Physics 5340 lecture (and lab oversight):	W23, W22
Physics 6500 lecture	F21, F20
Physics 6850 lab:	W21, W20, W17

2. Graduate

Physics 7600: W18

C. Essays/Theses/Dissertations Directed

1. Students by Name, Level, Title of Project, Year

Nabin Poudyal, Ph.D., "Measurement of the Cross Section of Top Quark Pairs Produced in Association with a Photon in Lepton + Jets Events at $\sqrt{s} = 13$ TeV with Full RunII CMS Data", July 2021.

Kevin Siehl, Ph.D., "Search for Anomalous Trilinear Couplings of Electroweak Gauge Bosons Using Angular Variables at $\sqrt{s} = 13$ TeV at CMS", March 2020.

Sangeetha Baskaran, M.S. (thesis), "Search for Fully Reconstructed W Boson Decay", May 2015.

Shalhout Zaki Shalhout, Ph.D., "Search for the Standard Model Higgs Boson in the Process $ZH \rightarrow l^+l^-b\bar{b}$ in 4.1 fb^{-1} of CDF II Data", February 2010.

Nagesh Kulkarni, Ph.D., "Analysis of D0-D0bar Mixing in D0 to K pi Decays Using the CDF II Detector", August 2009, co-advisor.

Daljit Dhaliwal, M.S. (thesis), "Calculation of Acceptance and Efficiency for $D^0 \rightarrow$



e^+e^- and Rates of Pions and Kaons Faking Electron Signals at CDF”, May 2006.

Jing-Ge Shiu, Ph.D., “Study of $D^0 \rightarrow \mu^+\mu^-$ FCNC Decay at HERA-B”, Feb. 2003.

2. Advising Presently:

Nana Dawi: M.S.. student

3. Ph.D. Thesis Committees:

Suravinda Janaka Kumara Kospalage, 2022

Nabin Poudyal, 2021 (chair)

Kevin Siehl, 2020 (chair)

Chamath L.K.K.D., 2014

Sowjanya Gollapinni, 2012

Peng Zhou, 2012

Matt Taylor, 2011

Shalhout Zaki Shalhout, 2010 (chair)

Andriy Badin, 2010

Nagesh Kulkarni, 2009 (co-chair)

Alex Stopolsky, 2005

Jing-Ge Shiu, 2003 (chair)

Mark Buchler, 2002

4. Prospectus Committees:

Suravinda Janaka Kumara Kospalage, 2018

Nabin Poudyal, 2017 (chair)

Christopher Clarke, 2012 (chair)

Kevin Siehl, 2012 (chair)

Chamath L.K.K.D., 2011

Jocelyn Mlynarz, 2010

Sowjanya, Gollapinni, 2009

Peng Zhou, 2009

Matt Taylor, 2007

Andriy Badien, 2007

Shalhout Shalhout, 2007 (chair)

Nagesh Kulkarni, 2007

Alex Stopolsky, 2003

Jing-Ge Shiu, 2001 (chair)

Mark Buchler, 2000

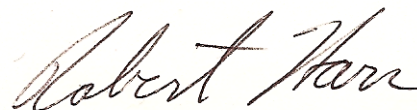
5. Undergraduate Advisees

Tanner Sawgle, 2021–2022.

DiMario Ross, 2019–2022. (now a Ph.D. student at MSU)

Kenneth Long, 2018–2020.

Amelia Droetsch, 2019.



Ellen Holmgren, REU summer student from Kenyon College, Gambler OH, summer 2016.

Dillon Fitzgerald, student assistant, summer 2014, AY 2014–2017; REU summer student, summer 2015, postbac student 2017–2018.

Jarod Sawasky, UROP student, AY 2014–2015.

Christopher Balts, UROP student, AY 2014–2015.

Caleb Bowers, REU summer student from Hillsdale College, Hillsdale MI, summer and fall 2013.

Joseph Flanigan, REU summer student from Univ. Wisconsin, Milwaukee, summer 2012.

Geoffrey Fatin, REU summer student from SUNY Buffalo, summer 2012.

Haley Morris, REU summer student from Arkansas Tech., summer 2012.

Tyler Lazorka, REU summer student from Schoolcraft Comm. Coll., co-advised summer 2012.

Mark Schott, REU summer student, summer 2011; student assistant AY 2011–2013.

Kristina Krylova, REU summer student from SUNY Buffalo, summer 2011.

Kellen McGee, REU summer student from Johns Hopkins, summer 2011.

Emmett Windisch, REU summer student, summer 2009; student assistant AY 2009–2010.

Jessica Oakes, student assistant AY 2008–2013; REU summer student, summer 2009

Erin Nagelkirk, student assistant, fall 2007 and AY 2008–11

Ron Gennaro, student assistant, winter 2007

6. High School Students and Teachers:

12 high school students and 2 high school science teachers in 2016 QuarkNet summer research.

12 high school students and 2 high school science teachers in 2015 QuarkNet summer research.

12 high school students and 2 high school science teachers in 2014 QuarkNet summer research.

4 high school science teachers in 2014 QuarkNet modern physics workshop.

12 high school students and 2 high school science teachers in 2013 QuarkNet summer research.

12 high school students and 2 high school science teachers in 2012 QuarkNet summer research.

30 high school students and 4 high school science teachers in 2012 QuarkNet MasterClass, March 10, 2012.

12 high school students and 3 high school science teachers in 2011 QuarkNet summer research.

15 high school students and 5 high school science teachers in 2011 QuarkNet MasterClass, March 19, 2011.

12 high school students and 5 high school science teachers in 2010 QuarkNet summer research.

Mentored 4 high school students and 2 high school science teachers during summers 2007 and 2008 as part of the QuarkNet summer research.

D. Course or Curriculum Development



1996 Fall: I developed a new laboratory experiment on analog-to-digital conversion for the electronics lab of Physics 5550/5620.

2001 Winter: I developed a new laboratory experiment on digital-to-analog conversion and microprocessors for the electronics lab of Physics 5550/5620.

2004 Winter: I contributed a lecture to Dr. Dymetrenko's multimedia project for teaching classroom English to foreign instructors.

2006 Winter: Developed initial proposal for upgrade of electronics course, PHY 5550/5620, with P.K. Kuo and Z. Platis.

2006 Winter: Proposal for update of Physics undergraduate curriculum, with graduate committee.

2009 Summer: Member of the Qualifying Exam Review Committee

2014–2015: Reviewed new discussion sections as part of the oversight committee. With S. Gavin, writing learning outcomes and assessments for Physics B.S. and B.A. degrees. Update of AFM experiment for advanced lab with P. Hoffmann and A. Sebastian. Review and update all the lab instructions for PHY5620 and PHY6850. Organizing and writing proposal for new experiments in PHY6850 advanced laboratory, and new robot-based experiments for PHY5620 electronics course.

2016–2017: Setup, checked out, and wrote lab guides for new Magnetic Susceptibility, Ultrasound, SQUID Measurements, and Modern Interferometry experiments.

2017–2019: Develop active learning plans for PHY2180/5. Discussion section lesson plans were created, and evaluated with the help of the GTA's. This has involved researching the large amount of material available from textbook publisher websites, through the physport.org website, animated simulations from phet.colorado.edu, and other material scattered around the internet. Active learning in the large lecture sessions is implemented primarily through the use of clickers with carefully chosen questions. The material is in a format to be passed on to future instructors.

2020: Create online version of PHY6500 for remote teaching during COVID-19. Included choice of new textbook, creation of Powerpoint slides for all lectures, reading quizzes to encourage students to keep up with text during course, substantial work on homework with some unique problems to discourage use of online solutions, and creation of midterm and final exams that were administered remotely.

2020–2021: Preparation of completely new **data science** module for advanced lab course PHY6850 for remote teaching during COVID-19.



2021–2022: Creation of a **data science** module to introduce faculty to the use of Jupyter notebooks and PYTHON in courses. Students in all physics majors are required to take the 1 credit introduction to programming class that introduces Jupyter notebooks and PYTHON. It is important to introduce the faculty to these tools and teach the basics so that these can be used in course work as readily as we use calculus. An introduction appropriate for faculty and a collection of examples is in development.

2021–2022: Member of the WSU group participating in the APS BRIDGE program. Mentoring Shanaz Parveen.

E. Course Materials (Unpublished)

I have placed detailed lecture notes on the web for Astronomy 2010, Physics 2130, 2140, 3100, 5200, 5210 (6200), 5620, 7060, 7600, 7610, and 8810. The notes are complete with worked examples, and are available at <http://hep.physics.wayne.edu/~harr/>

II. RESEARCH

A. Research in Progress, Not Funded

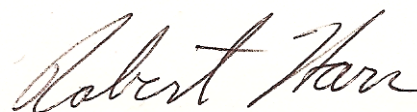
Title: “Particle Physics Research Program / Task A”
PI/co-PIs: R. Harr
Source: Fermilab
Period: 4/22 – 3/26
Amount: \$825,000 (Specific request for R. Harr)

B. Funded Research in Last Five Years

Title: “Activities Related to the High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker – FY19 and will be extended to 2020 and 2021.”

PI/co-PIs: R. Harr
Source: Notre DAME
Period: 10/21 – 9/22
Amount: Support level not set yet.

Title: “TIDE award.”
PI/co-PIs: R. Harr
Source: WSU CLAS
Period: 9/21 – 9/22
Amount: \$2,770



Title: “Activities Related to the High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker – FY19 and will be extended to 2020 and 2021.”

PI/co-PIs: R. Harr

Source: Fermilab

Period: 3/19 – 3/20

Amount: \$22,365

Title: “Guest and Visitors Supplement for N. Poudyal”

PI/co-PIs: N. Poudyal (R. Harr)

Source: Fermilab LHC Physics Center

Period: 5/18 – 5/19

Amount: \$12,600 (awarded directly to N. Poudyal, does not appear in WSU records)

Title: “URA Visiting Scholars”

PI/co-PIs: R. Harr, N. Poudyal

Source: University Research Association

Period: 5/18 – 5/19

Amount: \$15,000 (\$15,000 share to R. Harr, PI) (award pays N. Poudyal’s GRA stipend)

Title: “Particle Physics Research Program / Task A”

PI/co-PIs: P. Karchin, R. Harr

Source: U.S. Department of Energy

Period: 4/18 – 3/19

Amount: \$120,000 (\$60,000 share to R. Harr, co-PI)

Title: “Particle Physics Research Program / Task A”

PI/co-PIs: P. Karchin, R. Harr

Source: U.S. Department of Energy

Period: 4/15 – 3/18

Amount: \$910,000 (\$455,000 share to R. Harr, co-PI)

C. Fellowships/Grants/Special Awards in Last Five Years

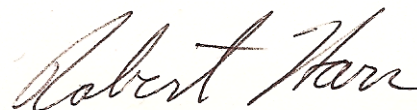
- 2019-20 WSU Competitive GRA Award for Nabin Poudyal
- 2019 WSU Summer Dissertation Award for Nabin Poudyal
- 2019 WSU Student Senate Student Success Award for Faculty Excellence
- 2015 Richard J. Barber Faculty Recognition Award

III. PUBLICATION

A. Journal Articles Published

Refereed Journals

I have listed papers from the CMS collaboration where I have been involved in the internal review of the paper before publication, the so-called analysis review committee. When

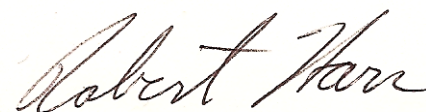


I have directly contributed to the analysis and preparation of the result I indicate that separately.


For papers from the CDF Collaboration, I have made significant contributions to the operation of the experimental apparatus and simulation of the apparatus, critical to all publications, as detailed at the end of this cv under “Other Professionally Related Service”. Below each paper I will indicate additional contributions to the paper. Nagesh Kulkarni and Shalhout Shalhout are co-authors on basically all CDF papers published since 2008.

I was directly involved in the writing or production of the following papers:

1. A. Tumasyan *et al.* [CMS], **Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV**, JHEP **12**, 180 (2021) doi:10.1007/JHEP12(2021)180 [arXiv:2107.01508 [hep-ex]].
Nabin Poudyal’s dissertation project.
2. A. M. Sirunyan *et al.* [CMS], **Observation of electroweak production of $W\gamma$ with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV**,” Phys. Lett. B **811**, 135988 (2020) [arXiv:2008.10521 [hep-ex]].
3. W. Adam *et al.* [CMS Tracker Group], **Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS**,” JINST **15**, no.03, P03014 (2020)
4. A. M. Sirunyan *et al.* [CMS], **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings**,” JHEP **06**, 076 (2020) [arXiv:2002.09902 [hep-ex]].
5. “**Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s} = 13$ TeV**” A. M. Sirunyan *et al.* [CMS Collaboration], Phys. Lett. B **795**, 281 (2019) [INSPIRE-HEP entry](#)
6. “**Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV**” A. M. Sirunyan *et al.* [CMS Collaboration], JHEP **1904**, 122 (2019) [INSPIRE-HEP entry](#)
7. “**Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**” A. M. Sirunyan *et al.* [CMS Collaboration], Phys. Lett. B **798**, 134985 (2019) [INSPIRE-HEP entry](#)
8. “Averages of b -hadron, c -hadron, and τ -lepton properties as of summer 2016”, Y. Amhis *et al.* [HFLAV Collaboration], Eur. Phys. J. C **77**, no. 12, 895 (2017).
9. “Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV,” V. Khachatryan *et al.* [CMS Collaboration], Phys. Lett. **B 766**, 268 (2017).
10. “Study of the energy dependence of the underlying event in proton-antiproton collisions”, T. A. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **92**, 092009 (2015)
11. “First measurement of the forward-backward asymmetry in bottom-quark pair production at high mass”, T. A. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **92**, 032006 (2015)
12. “Search for Supersymmetry Using Razor Variables in Events with b -Tagged Jets in pp Collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D **91**, 052018 (2015)




13. “Search for production of an $\Upsilon(1S)$ meson in association with a W or Z boson using the full 1.96 TeV $p\bar{p}$ collision data set at CDF”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **91**, no. 5, 052011 (2015)
14. “Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Eur. Phys. J. C **75**, no. 2, 66 (2015)
15. “Measurement of differential production cross section for Z/γ^* bosons in association with jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, T. A. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **91**, 012002 (2015)
16. “Measurement of the B_c^- meson lifetime in the decay $B_c^- \rightarrow J/\psi \pi^-$ ”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **87**, 011101 (2013)
17. “Observation of sequential Upsilon suppression in PbPb collisions”, S. Chatrchyan *et al.* [CMS Collaboration], Phys. Rev. Lett. **109**, 222301 (2012).
18. “Measurement of the difference of CP-violating asymmetries in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays at CDF”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **109**, 111801 (2012)
19. “Measurement of CP-violation asymmetries in $D^0 \rightarrow K_S\pi^+\pi^-$ ”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **86**, 032007 (2012)
20. “Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV”, S. Chatrchyan *et al.* [CMS Collaboration]. JINST **7**, P10002 (2012)
21. “Measurement of $B_s^0 \rightarrow D_s^{(*)+}D_s^{(*)-}$ Branching Ratios”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **108**, 201801 (2012)
22. “Evidence for the charmless annihilation decay mode $B_s^0 \rightarrow \pi^+\pi^-$ ”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **108**, 211803 (2012)
23. “Measurement of the branching fraction $\mathcal{B}(\Lambda_b^0 \rightarrow \Lambda_c^+\pi^-\pi^+\pi^-)$ at CDF”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **85**, 032003 (2012)
24. “Measurement of CP-violating asymmetries in $D^0 \rightarrow \pi^+\pi^-$ and $D^0 \rightarrow K^+K^-$ decays at CDF”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **85**, 012009 (2012)
25. “Measurements of branching fraction ratios and CP-asymmetries in suppressed $B^- \rightarrow D(\rightarrow K^+\pi^-)K^-$ and $B^- \rightarrow D(\rightarrow K^+\pi^-)\pi^-$ decays”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **84**, 091504 (2011)
26. “Measurements of the Angular Distributions in the Decays $B \rightarrow K^{(*)}\mu^+\mu^-$ at CDF”. T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **108**, 081807 (2012)
27. “Search for B(s) and B to dimuon decays in pp collisions at 7 TeV”, S. Chatrchyan *et al.* [CMS Collaboration]. Phys. Rev. Lett. **107**, 191802 (2011)
28. “Measurement of Polarization and Search for CP-Violation in $B_s^0 \rightarrow \phi\phi$ Decays”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 261802 (2011)
29. “Observation of the Ξ_b^0 Baryon”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 102001 (2011)
30. “Observation of the Baryonic Flavor-Changing Neutral Current Decay $\Lambda_b \rightarrow \Lambda\mu^+\mu^-$ ”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 201802 (2011)
31. “Search for $B_s \rightarrow \mu^+\mu^-$ and $B_d \rightarrow \mu^+\mu^-$ Decays with CDF II”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 239903 (2011).
32. “Measurement of branching ratio and B_s^0 lifetime in the decay $B_s^0 \rightarrow J/\psi f_0(980)$ at CDF”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **84**, 052012 (2011)



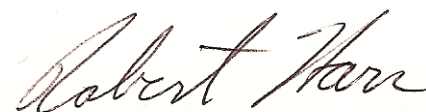
33. “Measurements of the properties of $\Lambda_c(2595)$, $\Lambda_c(2625)$, $\Sigma_c(2455)$, and $\Sigma_c(2520)$ baryons”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D **84**, 012003 (2011)
34. “Measurements of Direct CP Violating Asymmetries in Charmless Decays of Strange Bottom Mesons and Bottom Baryons”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **106**, 181802 (2011)
35. “Measurement of the B_s Lifetime in Fully and Partially Reconstructed $B_s \rightarrow D_s^-(\phi\pi^-)X$ Decays in $\bar{p}-p$ Collisions at $\sqrt{s} = 1.96$ TeV”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 272001 (2011)
36. T. Aaltonen et al. [CDF Collaboration], “Improved Search for a Higgs Boson Produced in Association with $Z \rightarrow l^+l^-$ in proton antiproton Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **105**, 251802 (2010).
37. T. Aaltonen et al. [CDF Collaboration], “Updated Search for the Flavor-Changing Neutral- Current Decay $D^0 \rightarrow \mu^+\mu^-$,” Phys. Rev. D **82**, 091105 (2010).
38. S. Chatrchyan et al. [CMS Collaboration], “Performance of CMS Muon Reconstruction in Cosmic-Ray Events,” JINST **5**, T03022 (2010).
39. S. Chatrchyan et al. [CMS Collaboration], “Performance of the CMS Cathode Strip Chambers with Cosmic Rays,” JINST **5**, T03018 (2010).
40. T. Aaltonen et al. [CDF Collaboration], “A Search for the Higgs Boson Produced in Association with $Z \rightarrow l^+l^-$ Using the Matrix Element Method at CDF II,” Phys. Rev. D **80**, 071101 (2009).
41. M. Antonelli, D. M. Asner, D. A. Bauer, T. G. Becher, M. Beneke, A. J. Bevan, M. Blanke, C. Bloise et al., “Flavor Physics in the Quark Sector,” Phys. Rept. **494**, 197-414 (2010).
42. T. Aaltonen et al. [CDF Collaboration], “Observation of the Omega(b)- Baryon and Measurement of the Properties of the Xi(b)- and Omega(b)- Baryons,” Phys. Rev. D **80**, 072003 (2009).
43. T. Aaltonen et al. [CDF Collaboration], “Search for the Decays $B_0(s) \rightarrow e^+ \mu^-$ and $B_0(s) \rightarrow e^+ e^-$ in CDF Run II,” Phys. Rev. Lett. **102**, 201801 (2009).
44. T. Aaltonen et al. [CDF Collaboration], “Observation of New Charmless Decays of Bottom Hadrons,” Phys. Rev. Lett. **103**, 031801 (2009).
45. T. Aaltonen et al. [CDF Collaboration], “Search for the Rare Decays $B^+ \rightarrow \mu^+ \mu^- K^+$, $B_0 \rightarrow \mu^+ \mu^- K^*(892)$, and $B_0(s) \rightarrow \mu^+ \mu^- \phi$ at CDF,” Phys. Rev. D **79**, 011104 (2009).

My full list of publications follows. Some of the papers listed above are repeated below.

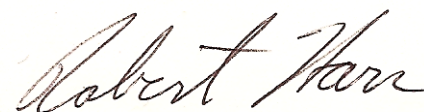
1. T. Aaltonen *et al.* [CDF], Science **376**, no.6589, 170-176 (2022) doi:10.1126/science.abk1781
2. A. Tumasyan *et al.* [CMS], Phys. Lett. B **835**, 137397 (2022) doi:10.1016/j.physletb.2022.137397 [arXiv:2202.11807 [hep-ex]].
3. A. M. Sirunyan *et al.* [CMS], Phys. Rev. Lett. **128**, no.3, 032001 (2022) doi:10.1103/PhysRevLett.128.032001 [arXiv:2102.13048 [hep-ex]].
4. A. M. Sirunyan *et al.* [CMS], JHEP **04**, 171 (2020) [erratum: JHEP **03**, 187 (2022)] doi:10.1007/JHEP04(2020)171 [arXiv:1908.01115 [hep-ex]].
5. A. M. Sirunyan *et al.* [CMS], Eur. Phys. J. C **79**, no.3, 277 (2019) [erratum: Eur. Phys. J. C **82**, no.4, 343 (2022)] doi:10.1140/epjc/s10052-019-6774-8 [arXiv:1809.11080 [hep-ex]].
6. A. M. Sirunyan *et al.* [CMS], Eur. Phys. J. C **78**, no.11, 891 (2018) [erratum: Eur. Phys. J. C **82**, no.4, 323 (2022)] doi:10.1140/epjc/s10052-018-6332-9 [arXiv:1805.01428 [hep-ex]].



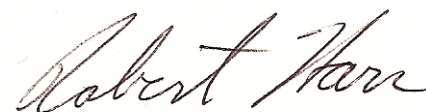
7. A. M. Sirunyan *et al.* [CMS], Eur. Phys. J. C **78**, no.9, 789 (2018) [erratum: Eur. Phys. J. C **82**, no.4, 379 (2022)] doi:10.1140/epjc/s10052-018-6242-x [arXiv:1803.08030 [hep-ex]].
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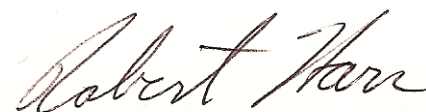
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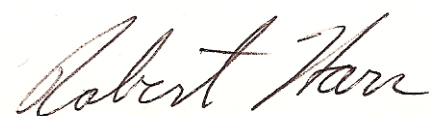
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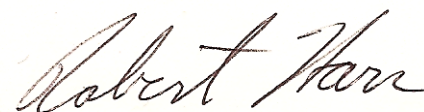
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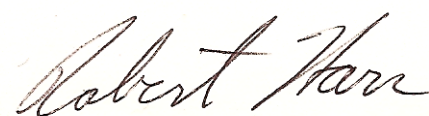
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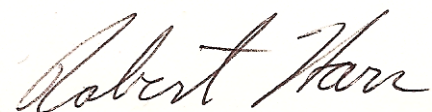
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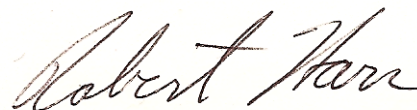
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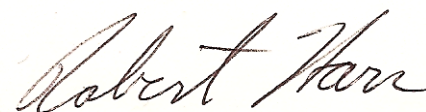
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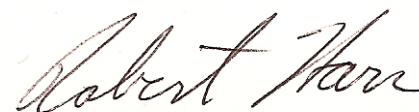
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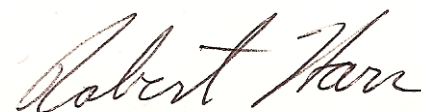
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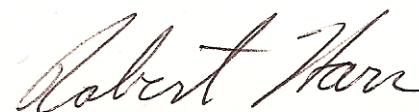
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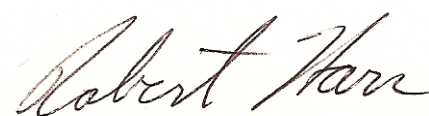
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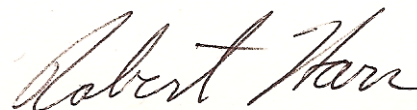
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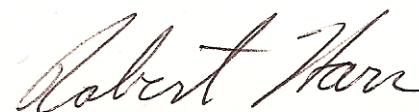
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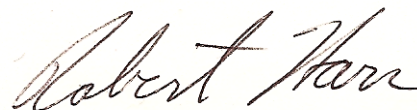
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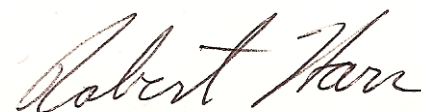
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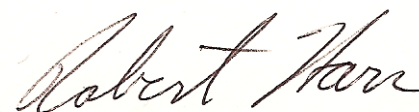
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1117. **“Measurement of Bose-Einstein Correlations in pp Collisions at $\sqrt{s}=0.9$ and 7 TeV”**
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1128. **“Search for Microscopic Black Hole Signatures at the Large Hadron Collider”**
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1132. **“Search for Randall-Sundrum Gravitons in the Diphoton Channel at CDF”**
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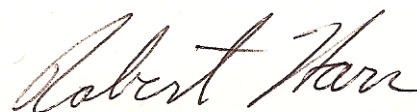
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T. Aaltonen *et al.* [CDF Collaboration].
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1164. **“Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron”**
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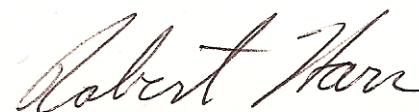
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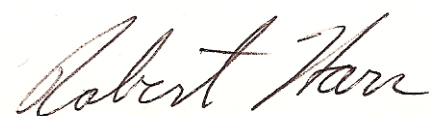
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1194. **“Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla”**
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1196. **“Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run”**
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1198. **“Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays”**
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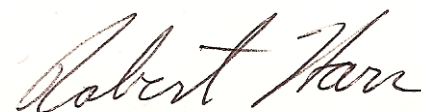
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1210. **“Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays”**
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1211. **“Measurements of the top-quark mass using charged particle tracking”**
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1220. **“Search for Higgs bosons predicted in two-Higgs-doublet models via decays to tau lepton pairs in 1.96-TeV p anti-p collisions”**
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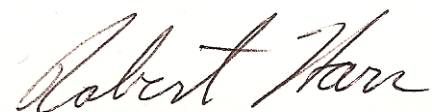
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1248. **“Observation of New Charmless Decays of Bottom Hadrons”**
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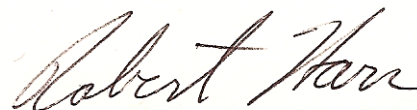
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1385. "Search for exclusive gamma-gamma production in hadron-hadron collisions," R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 99, 242002(2007).
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1390. “First observation of heavy baryons Σ_b and Σ_b^* ,” R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 99, 202001 (2007).
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1397. “Observation of WZ Production,” R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 161801 (2007).
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1398. “Search for new physics in lepton + photon + X events with 929 pb⁻¹ of ppbar collisions at $\sqrt{s} = 1.96$ TeV,” R.F. Harr with CDF Collaboration, Phys. Rev. D 75, 112001 (2007).
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1399. “First Measurement of the Ratio of Central-Electron to Forward-Electron W Partial Cross Sections in p-pbar Collisions at $\sqrt{s} = 1.96$ TeV,” R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 251801 (2007).
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1401. “Search for anomalous production of multi-lepton events in ppbar collisions at $\sqrt{s} = 1.96$ TeV,” R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 131804 (2007).
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1404. "Search for Exotic S=-2 Baryons in proton-antiproton Collisions at sqrt(s) = 1.96 TeV", R.F. Harr with CDF Collaboration, Phys. Rev. D 75, 032003 (2007).
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1405. "Measurement of the Top Quark Mass in p anti-p Collisions at s**(1/2) = 1.96-TeV using the Decay Length Technique", R.F. Harr with CDF Collaboration, Phys. Rev. D 75, 071102 (2007).
1406. "Precision measurement of the top quark mass from dilepton events at CDF II", R.F. Harr with CDF Collaboration, Phys. Rev. D 75, 031105 (2007).
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1411. "Observation of Exclusive Electron-Positron Production in Hadron-Hadron Collisions", R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 112001 (2007).
1412. "Search for W-prime boson decaying to electron-neutrino pairs in p anti-p collisions at s**(1/2) = 1.96-TeV", R.F. Harr with CDF Collaboration, Phys. Rev. D 75, 091101 (2007).
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This analysis was discussed and reviewed in the B Decays physics group that I lead. I was a member of the team contributing to this work. I contributed to the internal review of the analysis and paper. I helped to customize the press release of this result for WSU. Over 100 citations to this paper.
1415. "Measurement of the Lambda0(b) Lifetime in Lambda0(b) → J/psi Lambda0 in p anti-p Collisions at s**(1/2) = 1.96-TeV", R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 122001 (2007).
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1416. "Search for V+A current in top quark decay in p anti-p collisions at s**(1/2) = 1.96-TeV", R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 98, 072001 (2007).
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1418. "Measurement of the t anti-t Production Cross Section in p anti-p collisions at s**(1/2) = 1.96-TeV using Lepton + Jets Events with Jet Probability b-tagging", R.F. Harr with CDF Collaboration, Phys. Rev. D 74, 072006 (2006).
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1420. “Search for excited and exotic muons in the mu gamma decay channel in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ ”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 97, 191802 (2006).
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1426. “Search for new physics in lepton + photon + X events with 305 pb⁻¹ of p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ ”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 97, 031801 (2006).
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1428. “The CDF Run IIb Silicon Detector: Design, preproduction, and performance”, R.F. Harr with T. Akimoto et al., Nucl. Instrum. Meth. A556, 459 – 481 (2006).
I was responsible for the design and construction of crucial elements of this apparatus.
1429. “Search for Large Extra Dimensions in the Production of Jets and Missing Transverse Energy in p anti-p Collisions at $s^{**}(1/2) = 1.96\text{ TeV}$ ”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 97, 171802 (2006).
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I contributed to the internal review of this paper.



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1453. “Search for neutral MSSM Higgs bosons decaying to tau pairs in p anti-p collisions at $\sqrt{s} = 1.96$ TeV”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 96, 011802 (2006).
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1454. “Measurement of b hadron masses in exclusive J/ψ decays with the CDF detector”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 96, 202001 (2006).
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This analysis was discussed and reviewed in the B Decays physics group that I lead. I contributed to the internal review of the analysis and paper.

1456. “Search for new high mass particles decaying to lepton pairs in p anti-p collisions at $\sqrt{s} = 1.96$ TeV”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 95, 252001 (2005).
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1458. “Search for first-generation scalar leptoquarks in p anti-p collisions at $\sqrt{s} = 1.96$ TeV”, R.F. Harr with CDF Collaboration, Phys. Rev. D 72, 051107 (2005).
1459. “Search for new physics using high mass tau pairs from 1.96 TeV p anti-p collisions”, R.F. Harr with CDF Collaboration, Phys Rev. Lett. 95, 131801 (2005).
1460. “Measurement of the t anti-t production cross-section in p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV using lepton plus jets events with semileptonic B decays to muons”, R.F. Harr with CDF Collaboration, Phys. Rev. D 72, 032002 (2005).
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I contributed to the internal review of this paper.
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1467. “Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays”, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 051103 (2005).
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1469. “Search for anomalous kinematics in t t-bar dilepton events at CDF II”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 95, 022001 (2005).
item “Measurement of the $W^{+}W^{-}$ production cross section in p p-bar collisions at $\sqrt{s} = 1.96$ TeV using dilepton events”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 94, 211801 (2005).
1470. “Measurement of the forward-backward charge asymmetry from $W \rightarrow e \nu$ production in p anti-p collisions at $s^{**}(1/2) = 1.96$ TeV”, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 051104 (2005).



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1472. “Search for ZZ and ZW production in p p -bar collisions at $\sqrt{s} = 1.96$ TeV”, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 091105 (2005).
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1474. “Measurement of the lifetime difference between $B(s)$ mass eigenstates”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 94, 101803 (2005).
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I contributed to the internal review of this paper.
1478. “Analysis of decay-time dependence of angular distributions in $B_s^0 \rightarrow J/\psi \phi$ and $B_d^0 \rightarrow J/\psi K^0$ decays and measurement of the lifetime difference between B_s mass eigenstates”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 94, 101803 (2005).
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1479. “First Measurements of inclusive W and Z cross sections from run II of the Fermilab Tevatron collider”, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 94, 091803 (2005).
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1485. “Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models“, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 031104 (2005).
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1486. “Measurement of the J/psi meson and b-hadron production cross sections in p p-bar collisions at $\sqrt{s} = 1960$ GeV“, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 032001 (2005).
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1487. “Search for electroweak single-top-quark production in p p-bar collisions at $\sqrt{s} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. D 71, 012005 (2005).
1488. “Search for doubly charged higgs bosons decaying to dileptons in p p-bar collisions at $\sqrt{s} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 93, 221802 (2004).
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1489. “CDF run IIb silicon detector: Electrical performance and deadtime-less operation“, R.F. Harr with T. Akimoto et al., IEEE Trans. Nucl. Sci. 51, 987 (2004).
I was involved in the development of the apparatus documented in this paper.
1490. “Sensors for the CDF Run2b silicon detector“, R.F. Harr with K. Hara et al., IEEE Trans. Nucl. Sci. 51, 1546 (2004).
I was involved in the development of the apparatus documented in this paper.
1491. “CDF Run IIb silicon: Stave design and testing“, R.F. Harr with R.S. Lu et al., IEEE Trans. Nucl. Sci. 51, 2209 (2004).
I was involved in the development of the apparatus documented in this paper.
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1493. “Measurement of the t t-bar production cross section in p p-bar collisions at $\sqrt{s} = 1.96$ TeV using dilepton events“, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 93, 142001 (2004).
1494. “Search for the flavor changing neutral current decay $D_0 \rightarrow \mu+\mu^-$ with the HERA-B detector“, R.F. Harr with HERA-B Collaboration, Phys. Lett. B 596 (2004) 173-183.
This analysis is based on the thesis of my former Ph.D. student, Jing-Ge Shiu, performed with additional data taken in 2002-2003. Jing-Ge Shiu is a co-author.
1495. “Search for $B_0 \rightarrow \mu+\mu^-$ and $B_0^d \rightarrow \mu+\mu^-$ decays in p anti-p collisions at $s^{*(1/2)} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 93 (2004) 032001.
I chaired the editorial committee responsible for the writing of this paper.
1496. “Observation of the narrow state $X(3872) \rightarrow J/\psi\pi+\pi^-$ in anti-p p collisions at $s^{*(1/2)} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 93 (2004) 072001.
I contributed to the internal review of the paper.
1497. “Search for the flavor-changing neutral current decay $D_0 \rightarrow \mu+\mu^-$ in p anti-p collisions at $s^{*(1/2)} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. D 68 (2003) 091101R.
I performed this analysis and wrote the paper in collaboration with B. Ashmanskas. This result was the world’s best limit on this rare process at the time of publication.
1498. “Measurement of the prompt charm meson production cross-sections in p anti-p collisions at $s^{*(1/2)} = 1.96$ TeV“, R.F. Harr with CDF Collaboration, Phys. Rev. Lett. 91 (2003) 241804.
I contributed to the internal review of the paper.
1499. “Measurement of the mass difference $M(D_s^+) - M(D^+)$ at CDF II“, R.F. Harr with CDF Collaboration, Phys. Rev. D 68 (2003) 072004.
I contributed to the internal review of the paper.
1500. “Inclusive V_0 production cross-sections from 920-GeV fixed target proton nucleus collisions“, R.F. Harr with HERA-B Collaboration, Eur. Phys. J. C 29 (2003) 181-190.
Co-authored with Jing-Ge Shiu.



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The data used in this analysis was collected with the muon detector for which I led the construction and commissioning. I contributed to the internal review of the paper. Co-authored with Jing-Ge Shiu.
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The result presented in this paper was the principal goal of the entire experimental collaboration for the year 2000. Half the data used in this analysis was collected with the muon detector for which I led the construction and commissioning. I contributed to the internal review of the paper. Co-authored with Jing-Ge Shiu.
1503. "A Gaseous Muon Detector for the HERA-B Experiment", A. Arefiev, S. Barsuk, M. Danilov, V. Eiges, B. Fominykh, Yu. Gilitsky, F. Khasanov, T. Kvaratscheliia, L. Laptin, V. Tchoudakov, I. Tichomirov, M. Titov, Yu. Zaitsev, M. Buchler, R.F. Harr, P.E. Karchin, S. Nam, J.G. Shiu, IEEE Trans. on Nucl. Sci., 48 (2001) 1059-1064.
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1505. "Design and Operation of Front-End Electronics for Large Area Wire Chambers for the HERA-B Muon Detector", M. Buchler, W. Funk, A. Gutierrez, R.F. Harr, P.E. Karchin, P. Liu, S. Nam, J.G. Shiu, S.F. Takach, M. Atiya, D. Padrazo, A. Arefiev, S. Barsuk, F. Khasanov, L. Laptin, V. Tchoudakov, I. Tichimirov, M. Titov, Y. Zaitsev, IEEE Trans. on Nucl. Sci. 46 (1999) 126-132.
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1506. "Pseudorapidity Distribution of Charged Particles in PbarP Collisions at Sqrt(s)=630GeV", R. Harr, C. Liapis, P. Karchin, C. Biino, S. Erhan, W. Hofmann, P. Kreuzer, D. Lynn, M. Medinnis, S. Palestini, L. Pesando, M. Punturo, P. Schlein, B. Wilkens, J. Zweizig, Phys. Lett. B 401 (1997) 176-180.
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item "Development and Test of a Large Silicon Strip System for a Hadron Collider Beauty Trigger", J. Ellet *et al.*, Nucl. Inst. Meth. A317 (1992)28-46.
1508. "Test of a Large Silicon Strip Micro-vertex Detector at the SpbarpS", R. Harr, Nucl. Inst. Meth. A315 (1992)139-42.
1509. "Results from Double-sided Silicon Microstrip Detector with Field Plate Separation", R. Brenner *et al.*, Nucl. Inst. Meth. A326 (1993)198-203.
1510. "Measurement of the Spatial Resolution of Double-sided Double-metal AC-coupled Silicon Microstrip Detectors", R. Brenner *et al.*, Nucl. Inst. Meth. A326 (1993)189-197.
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1514. "Measurement of the $b\bar{b}$ Fraction in Hadronic Z0 Decays with Precision Vertex Detectors", R. Jacobsen *et al.*, Phys. Rev. Lett. 67 (1991) 3347-50.
1515. "Search for Elastic Nondiagonal Lepton-Pair Production in e^+e^- Annihilation at $[\sqrt{s} = 29$ GeV", J. Gomez-Cadenas *et al.*, Phys. Rev. Lett. 66 (1991) 1007-10.
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1532. "Initial Measurement of Z-Boson Resonance Parameters in e^+e^- Annihilation", G. Abrams *et al.*, Phys. Rev. Lett. 63 (1989) 724-7.
1533. "The MARKII detector for the SLC", G. Abrams *et al.*, Nucl. Inst. Meth. A281 (1989) 55-80.
1534. "Search for B Decay to Higgs Bosons for Higgs Boson Masses Between 50 MeV/c² and 210 MeV/c²", A. Snyder *et al.*, Phys. Lett. B229 (1989)169.
1535. "Studies of Jet Production Rates in e^+e^- Annihilation at $E_{cm}=29$ GeV", S. Bethke *et al.*, Z. Phys. C43 (1989) 325.
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B. Nonrefereed Journals

References to arXiv (online preprint server at Cornell University) can be found at <http://arXiv.org/abs/> followed by the preprint number number.

Y. Amhis *et al.* [Heavy Flavor Averaging Group (HFAG) Collaboration], “Averages of b -hadron, c -hadron, and τ -lepton properties as of summer 2014,” arXiv:1412.7515 [hep-ex].

“**Averages of B-Hadron, C-Hadron, and tau-lepton properties as of early 2012**”, Y. Amhis *et al.* [Heavy Flavor Averaging Group Collaboration], arXiv:1207.1158 [hep-ex] (2012).

“**Review of B_s mesons and b Baryons**”, R. F. Harr, arXiv:1201.4506 [hep-ex] (2012).

“**Time-integrated mixing probability towards an $A(\text{SL})$ measurement at CDF**”, R. Harr [CDF Collaboration], PoS BEAUTY **2011**, 025 (2011).

“Averages of b -hadron and c -hadron Properties at the End of 2007”, R. Harr with the Heavy Flavor Averaging Group (HFAG) Collaboration, arXiv:0808.1297 (2008).

“Averages of B Hadron Properties at the End of 2006”, R. Harr with the Heavy Flavor Averaging Group (HFAG) Collaboration, arXiv:0704.3575 (2007).

“Averages of B Hadron Properties at the End of 2005”, R. Harr with the Heavy Flavor Averaging Group (HFAG) Collaboration, arXiv: hep-ex/0603003 (2006).

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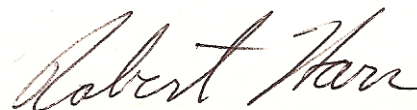
IV. Papers Published in Conference Proceedings

A. Refereed Papers

B. Nonrefereed Papers

“Rare Decays of B and D Hadrons at CDF,” R.F. Harr for the CDF Collaboration, FERMILAB-CONF-08-464-E(2008), Presented at the 34th International Conference on High Energy Physics (ICHEP 2009), Philadelphia, Pennsylvania, 30 Jul. – 5 Aug. 2008, arXiv: 0810.3444.

“Recent results from CDF”, R.F. Harr for the CDF collaboration, FERMILAB-CONF-04-008-E, Jan. 2004. Presented at the 9th International Conference on B Physics at Hadron Machines (Beauty 2003), Pittsburgh, Pennsylvania, 14-18 Oct. 2003.



"Summary of the Particle Physics and Technology Working Group", S. Lammel, W.H. Smith, R. Harr, S. Magill, M. Procaro, R. Ruchti, A. Sopczak, R. Wilson, R. Zhu, prepared for APS/DPF/DPB Summer Study on the Future of Particle Physics, Snowmass 2001, Snowmass CO, July 2001, SNOWMASS-2001-E7001, Dec. 2001, 19pp.

"Status and Plans for HERA-B", R. Harr for the HERA-B Collaboration, in the Proceedings of Frontiers in Contemporary Physics '01, Vanderbilt University, Nashville, TN, Editor: Robert Panvini, March 2001.

"Comparison of Forward Collider Vertex Detectors for B Physics at Hadron Accelerators", R. Harr, P. Karchin, and C. Kennedy, in the Proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass, Colorado, USA, Editors: Patricia McBride and C. Shekhar Mishra, June-July 1993.

"Measurement of the Angle Gamma With a Forward Collider Detector", P. Karchin et al., in the Proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass, Colorado, USA, Editors: Patricia McBride and C. Shekhar Mishra, June-July 1993.

"Comparison of Forward and Central Collider Detectors for Beauty Physics", C. Kennedy, R. Harr, and P. Karchin, in the Proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass, Colorado, USA, Editors: Patricia McBride and C. Shekhar Mishra, June-July 1993.

"A CMOS Low Noise and Self-triggered Multichannel Readout Chip for Low Energy X-Ray Detection", R. Harr et al., proceedings of the "European Workshop on X-Ray Detectors for Synchrotron Radiation Sources", Aussois, France, Sept. 9 to Oct. 10, 1991.

C. Invited Seminars or Lectures Presented in Last Five Years

1. "Big Science and Big Data", Data Explosion: Societal Benefits and Risks, Wayne State University, Detroit MI, March 2018.

D. Other Scholarly Work

"Measurement of the inclusive $t\bar{t} + \gamma$ cross section in the single lepton channel using Run II data", R. Verma, D. Noonan, F. Yumiceva, N. Poudyal, R. Harr, A. Das, P. Mal, R. Schoefbeck, and L. Lechner, CMS internal note CMS AN-20-230, January 2021.

"Measurement of the inclusive and differential $t\bar{t} + \gamma$ cross section and EFT interpretation in the single lepton channel with 137 fb^{-1} at $\sqrt{s} = 13\text{TeV}$ ", R. Schoefbeck, L. Lecher, D. Noonan, F. Yumiceva, N. Poudyal, R. Harr, A. Das, P. Mal, G. Mestdach, K. Skovpen, T. Cornelis, and D. Dobur, CMS internal note CMS AN-19-227, July 2020.

"Exclusive and semi-exclusive rare W boson decays", C.J. Clarke, R.F. Harr, A. Kropivnitskaya, and A. Sakharov, CMS internal note CMS AN-13-081, November 2016.

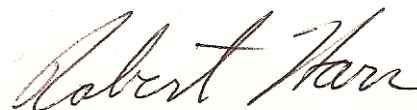
"Unpacking and Reformatting the CSC Raw Data", R.F. Harr, A.Sakharov, et al., CMS internal note CMS IN-2009/029, August 2009.

"A Search for the Production and Decay Process $ZH \rightarrow l^+l^-b\bar{b}$ in 2.7/fb using the Matrix Element Method," R.F. Harr and S.Z. Shalhout with R. Shekhar, B. Jayatilaka, B. Kilminster, D. Whiteson, and A. Kotwal, CDF note 9718, March 2009.

"A Search for $ZH \rightarrow llbb$ in 2.7/fb using the Matrix-element Method," R.F. Harr and S.Z. Shalhout with R. Shekhar, B. Jayatilaka, B. Kilminster, D. Whiteson, and A. Kotwal, CDF note 9696, February 2009.

"A Search for $ZH \rightarrow llbb$ in 2.7/fb using a Neural Network Discriminant," R.F. Harr and S. Shalhout with Richard Hughes, Ben Kilminster, Brandon Parks, Brian Winer, Bo Jayatilaka, Ashutosh Kotwal, Ravi Shekhar, Daniel Whiteson, CDF note 9665, January 2009.

"A Search for $ZH \rightarrow llbb$ in 2.7/fb using a Neural Network Discriminant," R.F. Harr and S. Shalhout with Richard Hughes, Ben Kilminster, Brandon Parks, Brian Winer, Bo Jayatilaka, Ashutosh Kotwal, Ravi Shekhar, Daniel Whiteson, CDF note 9543, September 2008.



“Frequentist Limit for $D0 \rightarrow \mu\mu$ Analysis”, R.F. Harr with E. Berry, I.K. Furic, and Y.K. Kim, CDF note 9501, Aug. 2008.

“A Search for $ZH \rightarrow llbb$ in 2.4 fb⁻¹ using a Neural Network Discriminant”, [2028?]R.F. Harr and S. Shalhout with Richard Hughes, Ben Kilminster, Brandon Parks, Brian Winer, Bo Jayatilaka, Ashutosh Kotwal, Ravi Shekhar, Daniel Whiteson, CDF note 9475, Aug. 2008.

“A Search for ZH to $l+l-b\bar{b}$ in 2.4 fb⁻¹ using a Neural Network discriminant”, R.F. Harr and S.Z. Shalhout with Richard Hughes, Ben Kilminster, Brandon Parks, Brian Winer, Bo Jayatilaka, Ashutosh Kotwal, Ravi Shekhar, Daniel Whiteson, CDF note 9406, July 2008.

“A Search for $ZH \rightarrow llbb$ in 2/fb using the Matrix-Element Method”, R.F. Harr and S.Z. Shalhout with Ravi Shekhar, Bodhitha Jayatilaka, Ben Kilminster, Daniel Whiteson, Ashutosh Kotwal, CDF note 9397, July 2008.

“Search for $D0$ to $\mu\mu$ with 360pb⁻¹ of data, public note”, R.F. Harr with Edmund Berry, Ivan Furic, Young Kee Kim, CDF note 9226, March 2008.

“Search for FCNC $D0$ to $\mu\mu$ Decays Using 360 pb⁻¹ of CDF Run II Data”, R.F. Harr with E. Berry, I.K. Furic, and Y.K. Kim, CDF note 8791, April 2007.

“Study of Muon Matching Efficiencies and Mistag Rates ”, R.F. Harr with E. Berry, et al. I.K. Furic, and Y.K. Kim,, CDF note 8042, January 2006.

“Averages of B-hadron properties at the end of 2005”, R.F. Harr with Heavy Flavor Averaging Group, arXiv:hep-ex/0603003, March 2006.

“Averages of B-hadron properties as of winter 2005”, R.F. Harr with Heavy Flavor Averaging Group, arXiv:hep-ex/0505100, May 2005.

“CDF Run IIB silicon: The new innermost layer”, R. Harr with P. Merkel et al., Fermilab-Pub-03-374-E, Feb. 2004, 5pp.

“Recent results from CDF”, R. Harr, Fermilab-Conf-04-008-E, Jan. 2004, 5pp.

“CDF Run IIB silicon vertex detector DAQ upgrade”, R. Harr with S. Behari et al., Fermilab-Conf-03-406-E, Dec. 2003, 6pp.

“CDF Run IIB silicon vertex detector DAQ upgrade”, R. Harr with N. Bacchetta et al., Fermilab-Pub-03-376-E, Dec. 2003, 6pp.

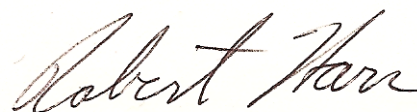
"Search for the FCNC decay $D0$ to $\mu+\mu-$ using the hadronic B trigger", B. Ashmanskas and R. Harr, CDF note #6273 (2003).

"CDF RUN IIB: Cables and Connectors Between COT and JPC (Layer 1 or Higher)", A. Gutierrez, R. Harr, and S. Zimmermann, Fermilab Engineering note #ESE-CDF-20020515 (2002).

V. SERVICE

A. Committee Assignments in Last Five Years

1. University Committee Chaired
2. University Committee Membership



2021 – 2023 Faculty Senate
2023 Search Committee for Dean of Libraries and School of Information Sciences
2023 University Budget Planning Council
2022 – 2023 Budget Subcommittee of the Senate
2021 – 2022 Research Subcommittee of the Senate
2018 – 2020 Faculty Senate and Curriculum and Instruction Subcommittee
2017 – 2018 Sabbatical Leave Committee
2016 – 2017 General Education Reform Committee, Engagement Subcommittee
2014 – 2017 General Education Oversight Committee

3. College/Department Committee Chaired

2019-21 Strategic Plan Committee
2017-18 General Education Curriculum Change Committee
2016-17 Undergraduate Recruiting and Retention Committee
2015-17 2170/80 Curriculum Reform Committee

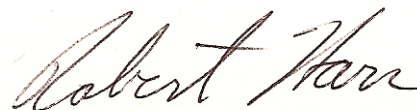
4. College/Department Committee Membership

2021-24 CLAS Faculty Council
2020 Salary Committee
2020-22 Executive Committee
2020-22 Awards Committee
2020 Undergraduate Curriculum Committee
2020 Qualifying Exam Committee
2018-19 Colloquium Committee
2017-18 Graduate Committee
2017-18 Modern Phys Labs, Optics and Electronics Lab Committee
2017-18 STEM LC Committee/Demo Equipment Committee
2017-18 PHY 2170-2180 Committee
2016 (W) Particle/Astro/Nuclear Seminar Organizer
2016 (W) CLAS Safety Committee
2015-16 CLAS P&T Committee
2015-16 CLAS General Education Reform Committee
2015-17 2170/80 Curriculum Reform Committee
2014-15 Electronics Lab Committee
2014-17 Advanced Modern Physics Lab Committee
2014-17 Assessment Implementation Committee
2012-16 Physics Department Executive Committee
2012-17 Undergraduate Recruiting and Retention Committee

B. Professional Consultation

1. Consulting to Public Agencies, Foundations, Professional Associations

Referee:



2021-22 Physical Review D (1 article) 2020-21 Physical Review Letters (1 article)
and Plos One (1 article)
2020-21 National Science Foundation Review Panel
2019-20 National Science Foundation Review Panel
2018-19 Physical Review D (1 article)
2018-19 National Science Foundation Review Panel
2017-18 National Science Foundation Review Panel
2017-18 Physical Review Letters (1 article)

C. Other Professionally Related Service

Chair of the organizing committee for the 2017 US CMS Collaboration meeting, held at Wayne State University, May 2017.

CMS Analysis Review Committee (2 analysis and paper) 2021-22 CMS Analysis Review Committee (3 analysis and paper) 2020-21 CMS Analysis Review Committee (1 analysis and paper) 2019-20

Project leader of the WSU Quarknet program to bring high school science teachers into contact with university researchers, Jan. 2004 to present.

