

WAYNE STATE UNIVERSITY

Professional Record
Faculty

NAME: Robert Francis Harr
OFFICE ADDRESS: 262 Physics
OFFICE PHONE: 313-577-2677
DATE PREPARED: 8/21/95
DATE REVISED: 3/1/17
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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: [Give name of institution, place, and date of degree.]

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.

BIOGRAPHICAL CITATIONS (National/Regional or Professional Directories):

I. TEACHING

A. Years at Wayne State
1996 - present.

B. Years at Other Colleges/Universities (please list)

C. Courses Taught at Wayne State in Last Five Years

1. Undergraduate

Physics 2130 quiz:	F12
Physics 2140 lecture:	F13
Physics 5620 lecture & lab:	F14
Physics 5210 lecture:	W15
Physics 6850 lab:	W17, W16, W15, W14

2. Graduate

Physics 6991 seminar:	F14
Physics 8810:	F16, W13
Physics 8991 PAN seminar	W16

3. Graduate Professional School

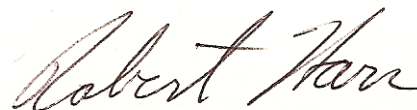
D. Essays/Theses/Dissertations Directed

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

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:

Christopher Clarke: Ph.D. student

Kevin Siehl: Ph.D. student

Nabin Poudyal: Ph.D. candidate

3. Ph.D. Thesis Committees:

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:

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

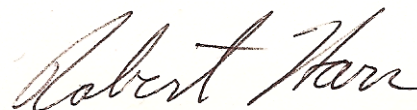
5. Undergraduate Advisees

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.

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.

E. 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.

F. 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

B. Funded Research in Last Five Years

Title: "URA Visiting Scholars"

PI/co-PIs: R. Harr, K. Siehl

Source: University Research Association

Period: 8/15 – 12/15

Amount: \$12,000 (\$12,000 share to R. Harr, PI) [award pays K. Siehl's GRA stipend]

Title: "Particle Physics Research Program / Task A"

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

Source: U.S. Department of Energy

Period: 4/15 – 3/18

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



Title: "Wayne State Activities with the Darkside Experiment"
PI/co-PIs: R. Harr
Source: Fermi National Accelerator Laboratory
Period: 6/14 – 12/14
Amount: \$22,286

Title: "Quarknet"
PI/co-PIs: R. Harr, P. Karchin
Source: University of Notre Dame
Period: 10/12 – 9/15
Amount: \$14,315 (\$7,158 share to R. Harr, PI)

Title: "CC-NIE Network Infrastructure: Wayne State University"
PI/co-PIs: D. Cinabro, P. Gossman, R. Harr, C. Pruneau
Source: National Science Foundation
Period: 12/12 – 12/14
Amount: \$359,158 (infrastructure grant, no share)

Title: "Particle Physics Research Program / Task A"
PI/co-PIs: P. Karchin, R. Harr
Source: U.S. Department of Energy
Period: 5/12 – 3/15
Amount: \$1,089,000 (\$544,500 share to R. Harr, co-PI)

Title: "Quarknet"
PI/co-PIs: R. Harr, P. Karchin
Source: University of Notre Dame
Period: 10/10 – 9/12
Amount: \$30,000 (\$15,000 share to R. Harr, PI)

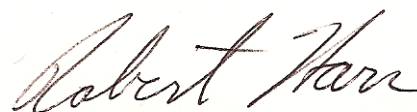
Title: "Wayne State Activities with the CDF Experiment"
PI/co-PIs: P. Karchin, R. Harr
Source: Fermi National Accelerator Laboratory
Period: 10/11 – 8/12
Amount: \$136,000 (\$68,000 share to R. Harr, co-PI)

Title: "Convener Teaching Release"
PI/co-PIs: R.F. Harr
Source: Fermi National Accelerator Laboratory
Period: 1/2011 – 12/2012
Amount: \$101,055

Title: "Particle Physics Research Program / Task A"
PI/co-PIs: P. Karchin, R. Harr
Source: U.S. Department of Energy
Period: 3/09 – 2/12
Amount: \$820,000 (\$410,000 share to R. Harr, co-PI)

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

- 2015 Richard J. Barber Faculty Recognition Award



III. PUBLICATION

A. Scholarly Books Published

1. Authored
2. Co-Authored

B. Chapters Published

1. Authored
2. Co-Authored

C. Editorships of Books/Proceedings

D. Journal Articles Published

Refereed Journals

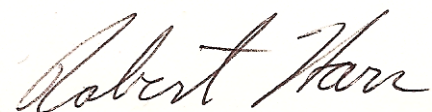
For papers from the CDF Collaboration, I have made significant contributions to the operation of the experimental apparatus and simulation of the apparatus, critical to all publications, as detailed at the end of this cv under “Other Professionally Related Service”. Below each paper I will indicate additional 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. “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).
2. “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)
3. “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)
4. “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)
5. “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)
6. “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)
7. “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)
8. “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)
9. “Observation of sequential Upsilon suppression in PbPb collisions”, S. Chatrchyan *et al.* [CMS Collaboration], *Phys. Rev. Lett.* **109**, 222301 (2012).
10. “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)




11. “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)
12. “Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV”, S. Chatrchyan *et al.* [CMS Collaboration]. JINST **7**, P10002 (2012)
13. “Measurement of $B_s^0 \rightarrow D_s^{(*)+} D_s^{(*)-}$ Branching Ratios”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **108**, 201801 (2012)
14. “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)
15. “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)
16. “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)
17. “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)
18. “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)
19. “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)
20. “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)
21. “Observation of the Ξ_b^0 Baryon”, T. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. Lett. **107**, 102001 (2011)
22. “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)
23. “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).
24. “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)
25. “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)
26. “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)
27. “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)
28. 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).
29. 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).
30. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of CMS Muon Reconstruction in Cosmic-Ray Events,” JINST **5**, T03022 (2010).




31. S. Chatrchyan et al. [CMS Collaboration], “Performance of the CMS Cathode Strip Chambers with Cosmic Rays,” JINST 5, T03018 (2010).
32. 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. D80, 071101 (2009).
33. 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).
34. 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. D80, 072003 (2009).
35. 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).
36. T. Aaltonen et al. [CDF Collaboration], “Observation of New Charmless Decays of Bottom Hadrons,” Phys. Rev. Lett. 103, 031801 (2009).
37. 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. D79, 011104 (2009).

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

1. “Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1702, 048 (2017)
2. “Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D, [Phys. Rev. D 95, 012009 (2017)]
3. “Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1702, 079 (2017)
4. “Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1702, 028 (2017)
5. “Search for high-mass $Z\gamma$ resonances in $e^+e^-\gamma$ and $\mu^+\mu^-\gamma$ final states in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1701, 076 (2017)
6. “Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 95, no. 1, 012011 (2017)
7. “Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 94, no. 11, 112004 (2016)
8. “Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 95, no. 1, 012003 (2017)
9. “Studies of inclusive four-jet production with two b -tagged jets in proton-proton collisions at 7 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 94, no. 11, 112005 (2016)
10. “Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 767, 147 (2017)



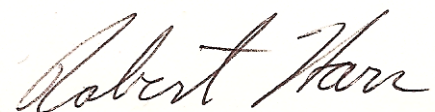
11. “Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1611, 055 (2016)
12. “The CMS trigger system”, V. Khachatryan *et al.* [CMS Collaboration]. JINST 12, no. 01, P01020 (2017)
13. “Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Eur. Phys. J. C 77, no. 2, 92 (2017)
14. “Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1612, 123 (2016)
15. “Measurement of the ZZ production cross section and $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 763, 280 (2016)
16. “Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1611, 147 (2016)
17. “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)
18. “Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1612, 083 (2016)
19. “Jet energy scale and resolution in the CMS experiment in *pp* collisions at 8 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JINST 12, no. 02, P02014 (2017)
20. “Search for lepton flavour violating decays of the Higgs boson to $e\tau$ and $e\mu$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 763, 472 (2016)
21. “Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 764, 66 (2017)
22. “Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1612, 013 (2016)
23. “Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 94, no. 5, 052006 (2016)
24. “Searches for R -parity-violating supersymmetry in *pp* collisions at $\sqrt{s} = 8$ TeV in final states with 0-4 leptons”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. D 94, no. 11, 112009 (2016)
25. “Measurement of the WW and WZ production cross section using final states with a charged lepton and heavy-flavor jets in the full CDF Run II data set”, T. A. Aaltonen *et al.* [CDF Collaboration]. Phys. Rev. D 94, no. 3, 032008 (2016) FERMILAB-PUB-16-229-E
26. “Evidence for collectivity in pp collisions at the LHC”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 765, 193 (2017)
27. “Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1702, 096 (2017)
28. “Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ and 13 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. Lett. 117, no. 5, 051802 (2016)
29. “Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV”, V. Khachatryan *et al.* [CMS Collaboration]. JHEP 1610, 129 (2016)



30. “Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV”, G. Aad *et al.* [ATLAS and CMS Collaborations]. JHEP 1608, 045 (2016) CERN-EP-2016-100, ATLAS-HIGG-2015-07, CMS-HIG-15-002
31. “Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Rev. Lett. 118, no. 2, 021802 (2017)
32. “Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s} = 8$ TeV”, V. Khachatryan *et al.* [CMS Collaboration]. Phys. Lett. B 762, 512 (2016)
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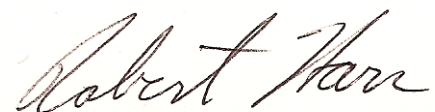
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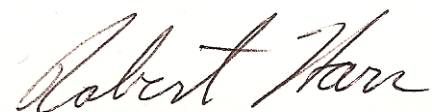
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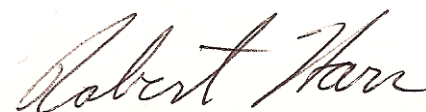
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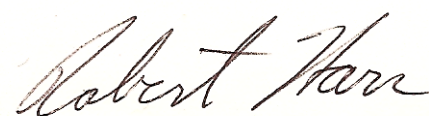
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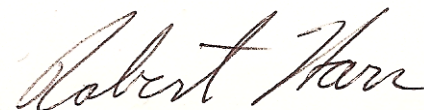
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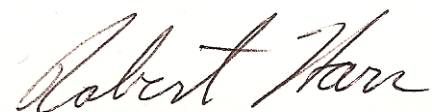
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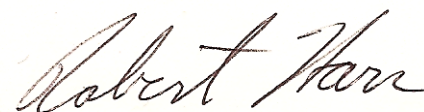
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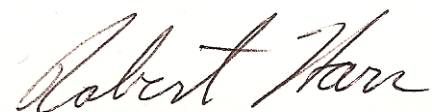
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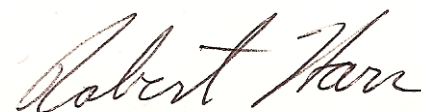
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764. **“Search for the Higgs boson in the all-hadronic final state using the CDF II detector”**
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765. **“First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s}=7$ TeV”**
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768. **“Measurement of the Top Quark Mass in the Lepton+Jets Channel Using the Lepton Transverse Momentum”**
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773. **“Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s}=7$ TeV”**
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779. **“Search for a New Heavy Gauge Boson W' with Electron + missing ET Event Signature in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
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786. **“Search for Randall-Sundrum Gravitons in the Diphoton Channel at CDF”**
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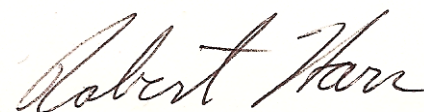
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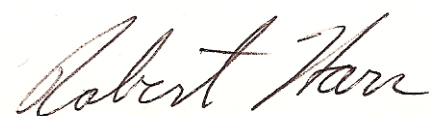
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832. **“Search for Pair Production of Supersymmetric Top Quarks in Dilepton Events from p anti- p Collisions at $\sqrt{s} = 1.96$ TeV”**
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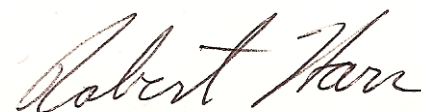
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839. **“Performance of the CMS Cathode Strip Chambers with Cosmic Rays”**
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840. **“Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data”**
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842. **“Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays”**
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843. **“Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays”**
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845. **“Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter”**
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846. **“Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data”**
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847. **“Performance of the CMS Drift Tube Chambers with Cosmic Rays”**
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848. **“Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla”**
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849. **“CMS Data Processing Workflows during an Extended Cosmic Ray Run”**
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850. **“Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run”**
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851. **“Measurement of the WW+WZ Production Cross Section Using the Lepton+Jets Final State at CDF II”**
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854. **“Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons”**
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855. **“A Search for the Higgs Boson Using Neural Networks in Events with Missing Energy and b-quark Jets in p anti-p Collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ ”**
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860. **“Search for Anomalous Production of Events with Two Photons and Additional Energetic Objects at CDF”**
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864. **“Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays”**
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866. **“First Measurement of the b-jet Cross Section in Events with a W Boson in p anti-p Collisions at $s^{1/2} = 1.96$ -TeV”**
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868. **“Flavor Physics in the Quark Sector”**
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878. **“Observation of the Omega(b)- Baryon and Measurement of the Properties of the Xi(b)- and Omega(b)- Baryons”**
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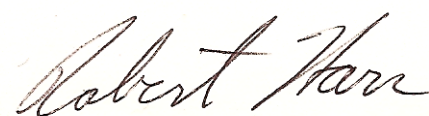
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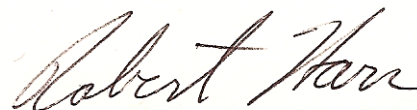
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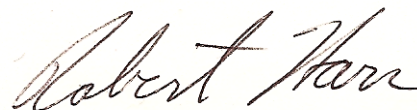
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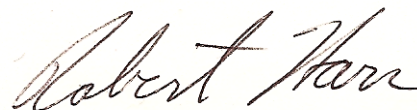
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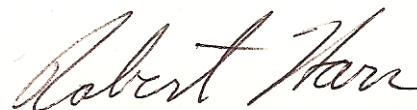
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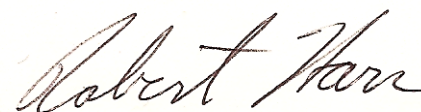
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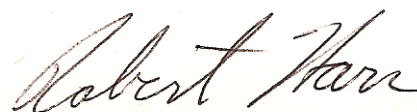
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E. Invited Review Articles

F. Nonrefereed Journals

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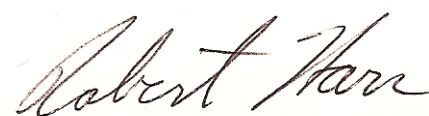
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B. Nonrefereed Papers

"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. Procario, 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.

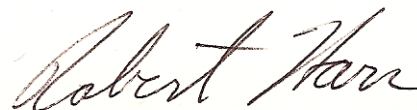
"Measurement of the Angle Gamma With a Forward Collider Detector", P. Karchin et al., in the Proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass, Colorado, USA, Editors: Patricia McBride and C. Shekhar Mishra, June-July 1993.

"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. "Modern Physics in the Classroom", Metro Detroit Science Teachers Association Conference, Woodhaven High School, Woodhaven MI, Nov. 2014.
2. "Why the Higgs Boson?", The Triple Helix Conference, Wayne State University, Detroit MI, March 2014.
3. "Modern Physics in the Classroom", Metro Detroit Science Teachers Association Conference, Woodhaven High School, Woodhaven MI, Nov. 2013.
4. "Stalking the Higgs Boson: A Subatomic Safari", Michigan Science Teachers Association Conference, Eastern Michigan University, Ypsilanti MI, Mar. 2013.
5. "Quarkonium Production at the Tevatron", Workshop on Heavy Flavor Production at Hadron Colliders, Lawrence Berkeley National Laboratory, Berkeley CA, Jan. 2013.
6. "Stalking the Elusive Higgs Boson", Science Under the Dome, WSU, Dec. 2012.
7. "The Higgs Boson", President's Higgs Boson Event, WSU, Oct. 2012.
8. "Mixing and Mixing-Related Asymmetries in the B System at the Tevatron", CKM 2012, Cincinnati OH, Oct. 2012.
9. "Sighting the Higgs Boson: A Field Guide", Phi Beta Kappa Detroit Chapter, Farmington Hills, MI, Sept. 2012.
10. "Sighting the Higgs Boson: A Field Guide", Special Physics Seminar, University of Windsor, Windsor Canada, Sept. 2012.
11. "Trapping the Higgs Boson: A Practical Guide", Physics Colloquium, WSU, Sept. 2012.
12. "Searches for New Physics in Heavy Flavor Decays at CDF". BEACH 2012. Wichita KS. July 2012.



13. "Particle Physics and Astronomy", Camp Cosmos, WSU, June 2012.
14. "CP Asymmetries in Charm Decays", Conference on Intersections of Particle and Nuclear Physics, CIPANP 2012, St. Petersburg FL, June 2012.
15. "Who Shot Higgs", Detroit Country Day School, Beverly Hills MI, May 2012.
16. "Wanted: The Higgs Boson", Detroit Metro Area Physics Teachers meeting, WSU, May 2012.
17. "Heavy Flavor at the Tevatron", Chicago Workshop on LHC Physics, University of Chicago, Chicago IL, May 2012.

D. Other Scholarly Work

"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 $ZH \rightarrow l^+l^-\bar{b}b$ 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 $ZH \rightarrow l+l-b\bar{b}$ 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.

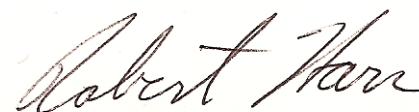
"A Search for $ZH \rightarrow llbb$ in 2/fb using the Matrix-Element Method", R.F. Harr and S.Z. Shalhout with Ravi Shekhar, Bodhitha Jayatilaka, Ben Kilminster, Daniel Whiteson, Ashutosh Kotwal, CDF note 9397, July 2008.

"Search for $D0 \rightarrow \mu\mu$ 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 $D0 \rightarrow \mu\mu$ 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 D_0 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. Administrative Appointments at Wayne State in Last Five Years
- B. Administrative Appointments at Other College/University in Last Five Years
- C. Committee Assignments in Last Five Years

- 1. University Committee Chaired
- 2. University Committee Membership

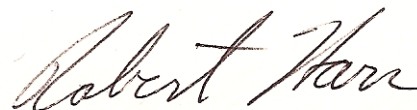
2016-17 General Education Reform Committee, Engagement Subcommittee
2014-17 General Education Oversight Committee

- 3. College/Department Committee Chaired

2016-17 Undergraduate Recruiting and Retention Committee
2015-16 2170/80 Curriculum Reform Committee
2014-15 Undergraduate Recruiting and Retention Committee
2011-12 Qualifying Exam Committee

- 4. College/Department Committee Membership

2016 (W) Particle/Astro/Nuclear Seminar Organizer
2016 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
2014-15 Learning Communities and Discussion Sections Oversight Committee



- 2012-16 Physics Department Executive Committee
- 2012-17 Undergraduate Recruiting and Retention Committee
- 2011-13 Undergraduate Course Review Committee

D. Positions Held in Professional Associations in Last Five Years

E. Membership/Offices Held in Public or Private Agencies Related to Discipline in Last Five Years

F. Professional Consultation

1. Public Presentations as an Expert in Discipline
2. Testimony before Public Bodies
3. Consulting to Public Agencies, Foundations, Professional Associations

Referee:

- 2015-16 Physical Review D (1 article)
- 2014-15 Physical Review D (1 article)
- 2014-15 U.S. Department of Energy (1 proposal)
- 2013-14 Physical Review D (1 article)
- 2012-13 Physical Review D (1 article), Physics Letters B (1 article)

4. Consulting to Private Enterprises
 - 2013-14 Review of book chapters for Cengage Learning

G. Journal/Editorial Activity

1. Editorships
2. Editorial Board Memberships

H. Other Professionally Related Service

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

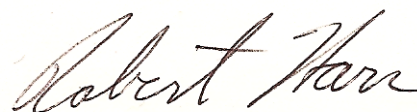
CMS Analysis Review Committee (1) 2015-16

Member of the Editorial Committee for CDF from Jan. 2014 to present.

Member of the organizing committee for CHARM 2015, held at Wayne State in May 2015.

Member of the conference program committee for CKM 2012, held in Cincinnati OH in Sept. 2012.

Heavy Flavor Group Convener for CDF from Jan. 2011 to June 2013. Responsible for coordinating, checking, and approving analyses by a group of approximately 100 physicists and students. Responsible to see that approved results are published in a timely manner and arrange appropriate conference talks for presenting the results.



Convener of the Rare Decays subgroup of the Heavy Flavor Averaging Group, July 2004 to Dec. 2014. This group compiles and averages measurements of B hadron decays and distributes the results to researchers worldwide. Along with responsibility for entering and updating CDF measurements, I am responsible for generating the tables and plots that appear on the web site, see <http://www.slac.stanford.edu/xorg/hfag/> for the results.

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

