

CURRICULUM VITAE

Colin Philip Jessop

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Education

B.A.(Hons.)(Physics)	University of Cambridge (Trinity College)	1987
Ph.D (Physics)	Harvard University	1993

Positions

Research Assistant	Harvard University	1988-1993
Research Associate	Stanford Linear Accelerator Center, Stanford University	1994-1997
Physicist	Stanford Linear Accelerator Center, Stanford University	1998-2003
Associate Professor	University of Notre Dame	2004-2010
Professor	University of Notre Dame	2010-

Awards

Research Fellowship	Royal Society, United Kingdom	1997.
Panofsky Fellowship	Stanford Linear Accelerator Center, Stanford University	1998.

Teaching

Year	Course	Description	Institution
2001	Physics 152	Undergraduate Particle Physics	Stanford University
2004-9	Physics 617	Graduate Particle Physics	University of Notre Dame
2004-5	Physics 132	General Physics II for engineers	University of Notre Dame
2006-9	Physics 10320	Elementary Cosmology for Arts and Letters Freshmen	University of Notre Dame
2010-	Physics 40602	Particle Physics and Cosmology for Physics Majors	University of Notre Dame
2011-	Physics 10111	Fundamentals of Physics	University of Notre Dame

Doctoral Dissertations Directed:

Hiroshisa Tanaka, Stanford University	“Radiative Decays of the B Meson”	2002
Erkcan Veysi, Stanford University	“Measurement of $B(B \rightarrow X_s \gamma)$ ”	2005
Kyle Knoepfel, University of Notre Dame	” A precision measurement of $B(B \rightarrow X_s \gamma)$ ”	2010
Ted Kolberg, University of Notre Dame	” Photon plus jets crosssection at $\sqrt{s} = 7.0$ TeV”	2011
Jamie Antonelli, University of Notre Dame	” Search for $H \rightarrow \tau(e)\tau$ at $\sqrt{s} = 7.0$ TeV”	2012
Sean Lynch, University of Notre Dame	” Search for $H \rightarrow \tau(\mu)\tau$ at $\sqrt{s} = 7.0$ TeV”	2012
Doug Berry , University of Notre Dame	“Observation of $H \rightarrow \gamma\gamma$ ”	2013
Nathan Kellams, University of Notre Dame	research in progress	2015 (expected)
Michael Planer, University of Notre Dame	research in progress	2016 (expected)
Fanbo Meng, University of Notre Dame	research in progress	2017 (expected)
Nabarun Dev, University of Notre Dame	research in progress	2018 (expected)

Post Doctoral Researchers Supervised:

Wenfeng Wang	BaBar Experiment	2007-2012
Jeff Kolb	CMS Experiment	2007-2013

University Service

2004-8	Faculty Senate (College of Science Representative)
2006-7	Faculty Senate - Chair Academic Affairs Committee(2006-7)
2007-8	Chair of Faculty Senate
2006-8	Academic Council
2006-7	University Committee to review Notre Dame child development center
2010-	College of Science Council
2011-	University Committee on Research and Sponsored Programs

Departmental Service

2004-6	Labs and Demonstrations committee
2004-8	High energy physics seminar coordinator
2007-8	Graduate Exams Committee
2009-11	Library Committee
2010-11	Space Committee (Chair)
2010-11	Graduate Admissions

Research

Experimental particle physics using electron-positron and hadron-hadron colliders. Searches for new particles. Heavy quark decays, particularly the radiative “penguin” decays of B mesons, and tau leptons. Calorimeter Detector development.

Funding:

8/1/06 to 7/31/09	DOE Base Grant for BaBar Experiment (P.I.)	\$235,000
6/1/07 to 5/31/10	NSF Base Grant for CMS experiment (Co P.I.)	\$1, 920,000
1/1/07 to 12/31/11	NSF M.O.U with UCLA for CMS experiment (Co P.I)	\$656,000
8/1/09 to 7/31/12	DOE Base Grant for BaBar Experiment (P.I.)	\$360,000
8/1/10 to 7/31/13	NSF Base grant for CMS experiment (Co P.I.)	\$2,180,000
8/1/13 to 7/31/16	NSF Base grant for CMS experiment (Co P.I.)	\$2,909,000

Management:

1999-2002 BaBar Electromagnetic Calorimeter Calibration Manager
 1999-2002 BaBar B Meson Radiative Decays Analysis Working Group Convenor
 2005-7 Member BaBar Speakers Bureau
 2006-7 Fermilab CMS LHC Physics center electron/photon group leader
 2009-11 Chair of US CMS ECAL institution Board
 2011- Notre Dame CMS group team leader
 2012- US CMS ECAL Project Manager
 2012- CMS ECAL Upgrade Manager

Reviewing:

Reviewer	Physical Review Letters	2002-present
Reviewer	Physical Review D (Particles and Fields)	2002-present
Reviewer	Physics Letters B	2011-present
Reviewer	National Science Foundation, Elementary Particles	2004-present
Reviewer	Department of Energy, Office of High Energy Physics	2004-present

Invited Talks at International Conferences

1. "Searches for Lepton Flavor Violating Decays of the Higgs Boson"
The Higgs Beyond the Standard Model" Fermi National Accelerator Lab, Nov 2014.
2. "Jet and Photon Physics with CMS"
"Conference on LHC First Data, Ann Arbor, Michigan, USA
December 2010.
3. "Rare Decays at BaBar".
Xth International Conference on Heavy Quarks and Leptons.
Frascati, Italy, October 2010 .
4. "Recent Results in CKM Physics at BaBar".
III Brookhaven Forum: A Spacetime Odyssey.
Brookhaven, NY. USA, May 2010.
5. "Radiative B mesons decays at BaBar".
XXXIVth International Conference on High Energy Physics.
Philadelphia, PA, USA, July 2008.
6. "Measurements of $b \rightarrow s\gamma$ at BaBar".
European Physical Society conference on High energy Physics, Lisbon, Portugal, 2005.
7. "Study of $b \rightarrow s, d\gamma$ Penguin Decays at BaBar".
XXXIst International Conference on High Energy Physics.
Amsterdam, Netherlands, July 2002.
8. "Radiative Penguin Decays at BaBar".
XXXth International Conference on High Energy Physics.
Osaka, Japan, August 2000.
9. "Tau Physics at Low Energy e^+e^- Storage Rings"
17th International Workshop on Neutrino's and Weak Interactions.
Capetown, South Africa, January 1999.
10. "Tau and Charm Physics at CLEO"
22nd Rencontres de Moriond, Electroweak Interactions and Unified Theories.
Les Arcs, France, March 1997.

11. “Design and Construction of the BaBar CsI(tl) Calorimeter”
American Physical Society, Division of Particles and Fields.
Minnesota, USA, Aug 1996.
12. “A Search for the Top Quark Decaying to Charged Higgs in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV at the Collider Detector at Fermilab”
International Conference on Proton-Antiproton Physics.
Tsukuba, Japan, October 1993.

Seminars

I have given seminars at the following institutions.

Boston University, BrookHaven National Laboratory, University of California Berkeley, University of California Davis, University of California Irvine, University of Cambridge, University of Chicago, Cornell University, Columbia University, Edinburgh University, Fermi National Accelerator Laboratory, Harvard University, Indiana University, University of London, University of Liverpool, University of Oregon, Ohio State University, University of South Carolina, Southern Methodist University, University of Texas at Austin, Texas A&M University.

Most Significant Publications

1. S. Chatrchyan *et al.* [CMS Collaboration], ”Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV,” JHEP **1306**, 081 (2013)
2. S. Chatrchyan *et al.* [CMS Collaboration], “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC,” Phys. Lett. B **716**, 30 (2012)
3. S. Chatrchyan *et al.* [CMS Collaboration], “Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=7$ TeV,” Phys. Lett. B **713**, 68 (2012)
4. S. Chatrchyan *et al.* [CMS Collaboration], “Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7$ TeV,” Phys. Lett. B **710**, 403 (2012)
5. S. Chatrchyan *et al.* [CMS Collaboration], “Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s}=7$ TeV,” Phys. Rev. Lett. **106**, 231801 (2011)
6. S. Chatrchyan *et al.* [CMS Collaboration], “Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV,” JHEP **1108**, 117 (2011)
7. V. Khachatryan *et al.* [CMS Collaboration], “Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV,” Phys. Rev. Lett. **106**, 082001 (2011).
8. C. Collaboration *et al.* [CMS Collaboration], “Performance of tau-lepton reconstruction and identification in CMS,” JINST **7**, P01001 (2012)
9. “Performance and Operation of the CMS Electromagnetic Calorimeter,”
The CMS Collaboration.
JINST **5**, T03010 (2010) 39pp
10. “The CMS Barrel Calorimeter Response To Particle Beams From 2-GeV/C To 350-GeV/C,”
The CMS Collaboration.
Eur. Phys. J. C **60**, 359-373 (2009).
11. “Precision Measurement of $B \rightarrow X_s \gamma$ Decays,” [The BaBar Collaboration, B. Aubert *et al.*] submitted to Phys. Rev D. 2012. 40pp
12. “Measurement of Branching Fractions and CP and Isospin Asymmetries in $B \rightarrow K^*(892)\gamma$ Decays,”
The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **103**, 211802 (2009) 7pp

13. “The CMS experiment at the CERN LHC,”
The CMS Collaboration.
JINST **0803**, S08004 (2008) 361pp
14. “Measurement of the $B \rightarrow X_s \gamma$ Branching Fraction and Photon Energy Spectrum using the Recoil Method,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **77**, 051103 (2008) 9pp
15. “Measurements of Branching Fractions for $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **78**, 112001 (2008) 11pp
16. “Measurement of the Branching Fraction of $B \rightarrow \rho \gamma$ and $B \rightarrow \omega \gamma$ ” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **98**, 151802 (2007) 7pp
17. “Measurement of the Branching Fraction and Photon Energy Moments of $B \rightarrow X_s \gamma$ and $A_{CP}(B \rightarrow X_{s+d} \gamma)$ ” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **97**, 171803 (2006) 8pp hep-ex/0607071,0207076,0507001
18. “Measurement of V_{ub} from lepton endpoint spectrum in $B \rightarrow X_{ul} \nu$ ” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **72**, 012006 (2006) 19pp
19. “Search for the radiative penguin decays $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **94**, 011801 (2005) 7pp
20. “Search for the rare decay $\bar{B}^0 \rightarrow D^{*0} \gamma$,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **72**, 051106 (2005) 7pp
21. “Measurements of the $B \rightarrow X_s \gamma$ branching fraction and photon spectrum from a sum of exclusive final states,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **72**, 052004 (2005) 16pp
22. “Search for the radiative decays $B \rightarrow \rho \gamma$ and $B \rightarrow \omega \gamma$,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **94**, 111801 (2004) 7pp
23. “Measurement of branching fractions, and CP and isospin asymmetries, for $B \rightarrow K^* \gamma$,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **70**, 112006 (2004) 7pp
24. “Measurement of the direct CP asymmetry in $b \rightarrow s \gamma$ decays,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **93**, 021804 (2004) 7pp
25. “Measurement of the $B^0 \rightarrow K_2^*(1430) \gamma$ and $B^+ \rightarrow K_2^*(1430) \gamma$ branching fractions,” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. D **70**, 091105 (2004) 17pp
26. “Measurement of $B \rightarrow K^* \gamma$ Branching Fractions and Charge Asymmetries.” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **88**, 101805 (2002). 8pp
27. “The BaBar Detector.” The BaBar Collaboration, B. Aubert *et al.*
Nucl. Instrum. Methods **479**, 1-116 (2002).
28. “Search for $B^0 \rightarrow \gamma \gamma$.” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **87**, 241803 (2001). 8pp

29. “Measurements of the Branching Fractions of Exclusive Charmless B Meson Decays with eta-prime or Omega mesons.” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **87**, 221802 (2001). 8pp
30. “Measurement of CP Violating Asymmetries in B^0 Decays to CP Eigenstates.” The BaBar Collaboration, B. Aubert *et al.*
Phys. Rev. Lett. **86**, 2515-2522 (2001).
31. “Study of Exclusive Radiative B Meson Decays.”
The CLEO Collaboration, S. Ahmed *et al.*
Phys. Rev. Lett. **84**, 5283-5287 (2000.)
32. “First Search for CP Violation in Tau Lepton Decay.”
The CLEO Collaboration, S. Ahmed *et al.*
Phys. Rev. Lett. **81**, 3823-3827 (1998)
33. Evidence for Top Quark production in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV at the Collider Detector at Fermilab
The CDF Collaboration, F. Abe *et al.*
Phys. Rev. Lett. **73**, 225-231 (1994)
34. Evidence for Top Quark production in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV at the Collider Detector at Fermilab
The CDF Collaboration, F. Abe *et al.*
Phys. Rev. D **50**, 2966-3026 (1994)
35. Search for the Top Quark decaying to Charged Higgs in Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV at the Collider Detector at Fermilab
The CDF Collaboration, F. Abe *et al.*
Phys. Rev. Lett. **72**, 1977-1981 (1994)

Full Publication List

1. V. Khachatryan *et al.* [CMS Collaboration], “Measurement of the charge ratio of atmospheric muons with the CMS detector,” Phys. Lett. B **692**, 83 (2010)
2. V. Khachatryan *et al.* [CMS Collaboration], “Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 7$ TeV,” Phys. Rev. Lett. **105**, 022002 (2010)
3. V. Khachatryan *et al.* [CMS Collaboration], “First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV at the LHC,” Phys. Rev. Lett. **105**, 032001 (2010)0
4. P. Adzic *et al.* [CMS Collaboration], “Radiation hardness qualification of PbWO4 scintillation crystals for the CMS Electromagnetic Calorimeter,” JINST **5**, P03010 (2010)
5. V. Khachatryan *et al.* [CMS Collaboration], “Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ &2.36 TeV,” JHEP **1002**, 041 (2010)
6. V. Khachatryan *et al.* [CMS Collaboration], “CMS Tracking Performance Results from early LHC Operation,” Eur. Phys. J. C **70**, 1165 (2010)
7. V. Khachatryan *et al.* [CMS Collaboration], “Measurement of the Underlying Event Activity in Proton-Proton Collisions at 0.9 TeV,” Eur. Phys. J. C **70**, 555 (2010)
8. S. Chatrchyan *et al.* [CMS Collaboration], “Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons,” JINST **5**, T03007 (2010)

9. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons,” JINST **5**, T03002 (2010)
10. S. Chatrchyan *et al.* [CMS Collaboration], “Measurement of the Muon Stopping Power in Lead Tungstate,” JINST **5**, P03007 (2010)
11. S. Chatrchyan *et al.* [CMS Collaboration], “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons,” JINST **5**, T03008 (2010)
12. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of CMS Muon Reconstruction in Cosmic-Ray Events,” JINST **5**, T03022 (2010) [13]
13. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of the CMS Cathode Strip Chambers with Cosmic Rays,” JINST **5**, T03018 (2010)
14. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data,” JINST **5**, T03012 (2010)
15. S. Chatrchyan *et al.* [CMS Collaboration], “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays,” JINST **5**, T03004 (2010)
16. S. Chatrchyan *et al.* [CMS Collaboration], “Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays,” JINST **5**, T03016 (2010)
17. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays,” JINST **5**, T03003 (2010)
18. S. Chatrchyan *et al.* [CMS Collaboration], “Commissioning of the CMS High-Level Trigger with Cosmic Rays,” JINST **5**, T03005 (2010)
19. S. Chatrchyan *et al.* [CMS Collaboration], “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter,” JINST **5**, T03014 (2010)
20. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data,” JINST **5**, T03013 (2010)
21. S. Chatrchyan *et al.* [CMS Collaboration], “Performance of the CMS Drift Tube Chambers with Cosmic Rays,” JINST **5**, T03015 (2010)
22. S. Chatrchyan *et al.* [CMS Collaboration], “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla,” JINST **5**, T03001 (2010)
23. S. Chatrchyan *et al.* [CMS Collaboration], “CMS Data Processing Workflows during an Extended Cosmic Ray Run,” JINST **5**, T03006 (2010)
24. S. Chatrchyan *et al.* [CMS Collaboration], “Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run,” JINST **5**, T03019 (2010)
25. S. Chatrchyan *et al.* [CMS Collaboration], “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays,” JINST **5**, T03017 (2010)
26. S. Chatrchyan *et al.* [CMS Collaboration], “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter,” JINST **5**, T03011 (2010)
27. S. Chatrchyan *et al.* [CMS Collaboration], “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons,” JINST **5**, T03020 (2010)
28. S. Chatrchyan *et al.* [CMS Collaboration], “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays,” JINST **5**, T03021 (2010)
29. S. Chatrchyan *et al.* [CMS Collaboration], “Performance and Operation of the CMS Electromagnetic Calorimeter,” JINST **5**, T03010 (2010)

30. S. Chatrchyan *et al.* [CMS Collaboration], “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays,” JINST **5**, T03009 (2010)
31. V. Khachatryan *et al.* [CMS Collaboration], “First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV,” Phys. Lett. B **695**, 424 (2011)
32. V. Khachatryan *et al.* [CMS Collaboration], “Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s} = 7$ TeV,” Phys. Rev. Lett. **105**, 262001 (2010)
33. V. Khachatryan *et al.* [CMS Collaboration], “Search for Dijet Resonances in 7 TeV pp Collisions at CMS,” Phys. Rev. Lett. **105**, 211801 (2010)
34. V. Khachatryan *et al.* [CMS Collaboration], “Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC,” JHEP **1009**, 091 (2010)
35. B. Aubert *et al.* [The BaBar Collaboration], “Observation of inclusive $D^{*\pm}$ production in the decay of $\Upsilon(1S)$,” Phys. Rev. D **81**, 011102 (2010)
36. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Measurement of CP observables in $B^\pm \rightarrow D_C PK^\pm$ decays and constraints on the CKM angle γ ,” Phys. Rev. D **82**, 072004 (2010)
37. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Observation of new resonances decaying to $D\pi$ and $D^*\pi$ in inclusive e^+e^- collisions near $\sqrt{s} = 10.58$ GeV,” Phys. Rev. D **82**, 111101 (2010)
38. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Search for the Rare Decay $B \rightarrow K\nu\bar{n}u$,” Phys. Rev. D **82**, 112002 (2010)
39. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Measurement of the Absolute Branching Fractions for $D_s^- \rightarrow \ell^- \bar{\nu}_\ell$ and Extraction of the Decay Constant f_{D_s} ,” Phys. Rev. D **82**, 091103 (2010)
40. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Exclusive Production of $D_s^+ D_s^-$, $D_s^{*+} D_s^-$, and $D_s^{*+} D_s^{*-}$ via e^+e^- Annihilation with Initial-State-Radiation,” Phys. Rev. D **82**, 052004 (2010)
41. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Search for $f_J(2220)$ in radiative J/ψ decays,” Phys. Rev. Lett. **105**, 172001 (2010)
42. P. del Amo Sanchez *et al.* [Babar Collaboration], “Search for $b \rightarrow u$ transitions in $B^- \rightarrow DK^-$ and $B^- \rightarrow D^* K^-$ Decays,” Phys. Rev. D **82**, 072006 (2010)
43. B. Aubert *et al.* [The BaBar Collaboration], “Correlated leading baryon-antibaryon production in $e^+e^- \rightarrow c\bar{c} \rightarrow \Lambda_c^+ \bar{\Lambda}_c^- X$,” Phys. Rev. D **82**, 091102 (2010)
44. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Study of $B^- \rightarrow X\gamma$ Decays and Determination of $|V_{td}/V_{ts}|$,” Phys. Rev. D **82**, 051101 (2010)
45. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Evidence for direct CP violation in the measurement of the Cabibbo-Kobayashi-Maskawa angle γ with $B^\pm \rightarrow D^{(*)}K^{(*)}\pm$ decays,” Phys. Rev. Lett. **105**, 121801 (2010)
46. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Search for $B^+ \rightarrow D^+ K^0$ and $B^+ \rightarrow D^+ K^{*0}$ decays,” Phys. Rev. D **82**, 092006 (2010)
47. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “ B -meson decays to $\eta'\rho$, $\eta'f_0$, and $\eta'K^*$,” Phys. Rev. D **82**, 011502 (2010)
48. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Observation of the $\Upsilon(1^3D_J)$ Bottomonium State through Decays to $\pi^+\pi^-\Upsilon(1S)$,”
49. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Search for CP violation using T -odd correlations in $D^0 \rightarrow K^+K^-\pi^+\pi^-$ decays,” Phys. Rev. D **81**, 111103 (2010)
50. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Observation of the Rare Decay $B^0 \rightarrow K_s K^0 + /\pi^-$ ” Phys. Rev. D **82**, 031101 (2010)

51. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Test of lepton universality in Upsilon(1S) decays at BaBar,” *Phys. Rev. Lett.* **104**, 191801 (2010)
52. J. P. Lees *et al.* [The BaBar Collaboration], “Measurement of the $\gamma\gamma^* \rightarrow \eta_c$ transition form factor,” *Phys. Rev. D* **81**, 052010 (2010)
53. B. Aubert *et al.* [The BaBar Collaboration], “Observation of the $\chi_{c2}(2P)$ meson in the reaction $\gamma\gamma \rightarrow D\bar{D}$ at BaBar,” *Phys. Rev. D* **81**, 092003 (2010)
54. J. P. Lees *et al.* [The BaBar Collaboration], “Search for Charged Lepton Flavor Violation in Narrow Upsilon Decays,” *Phys. Rev. Lett.* **104**, 151802 (2010)
55. B. Aubert *et al.* [The BaBar Collaboration], “Observation of the decay $B\bar{B} \rightarrow \Lambda_C \bar{p} \pi^0$ ” *Phys. Rev. D* **82**, 031102 (2010)
56. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Evidence for the decay $X(3872) - - > J/\psi\omega$ ” *Phys. Rev. D* **82**, 011101 (2010)
57. P. del Amo Sanchez *et al.* [The BaBar Collaboration], “Measurement of D^0 - \bar{D}^0 mixing parameters using $D^0 \rightarrow K_s^0 \pi^+ \pi^-$ and $D^0 \rightarrow K_s^0 K^+ K^-$ decays,” *Phys. Rev. Lett.* **105**, 081803 (2010)
58. B. Aubert *et al.* [The BaBar Collaboration], “A Search for $B^+ \rightarrow \tau^+ \nu$ Recoiling Against $B^- \rightarrow D^0 l^- \nu X$ ”
59. B. Aubert *et al.* [The BaBar Collaboration], “Measurements of Charged Current Lepton Universality and $|V_{us}|$ using Tau Lepton Decays to $e^- \bar{\nu}_e \nu_\tau$, $\mu^- \bar{\nu}_\mu \nu_\tau$, $\pi^- \nu_\tau$, and $K^- \nu_\tau$,” *Phys. Rev. Lett.* **105**, 051602 (2010)
60. S. Abdullin *et al.* [USCMS Collaboration and ECAL/HCAL Collaboration], “The Cms Barrel Calorimeter Response To Particle Beams From 2-Gev/C To 350-Gev/C,” *Eur. Phys. J. C* **60**, 359 (2009).
61. B. Aubert *et al.* [The BaBar Collaboration], “Measurement of CP violation observables and parameters for the decays $B^\pm \rightarrow DK^{*\pm}$,” *Phys. Rev. D* **80**, 092001 (2009)
62. B. Aubert *et al.* [The BaBar Collaboration], “Measurements of the τ Mass and Mass Difference of the τ^+ and τ^- at BaBar,” *Phys. Rev. D* **80**, 092005 (2009)
63. B. Aubert *et al.* [The BaBar Collaboration], “Precise measurement of the $e^+e^- \rightarrow \pi^+\pi^-(\gamma)$ cross section with the Initial State Radiation method at BaBar,” *Phys. Rev. Lett.* **103**, 231801 (2009)
64. B. Aubert *et al.* [The BaBar Collaboration], “A Search for Invisible Decays of the Upsilon(1S),” *Phys. Rev. Lett.* **103**, 251801 (2009)
65. B. Aubert *et al.* [The BaBar Collaboration], “Study of D_{sJ} decays to D^*K in inclusive e^+e^- interactions,” *Phys. Rev. D* **80**, 092003 (2009)
66. B. Aubert *et al.* [The BaBar Collaboration], “Measurement of $D^0 - \bar{D}^0$ Mixing using the Ratio of Lifetimes for the Decays $D^0 \rightarrow K^- \pi^+, K^+ K^-$,” *Phys. Rev. D* **80**, 071103 (2009)
67. B. Aubert *et al.* [The BaBar Collaboration], “Observation of the baryonic B-decay $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{p} K^- \pi^+$,” *Phys. Rev. D* **80**, 051105 (2009)
68. B. Aubert *et al.* [The BaBar Collaboration], “Search for B-meson decays to $b_1 \rho$ and $b - 1K^*$,” *Phys. Rev. D* **80**, 051101 (2009)
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