

CURRICULUM VITAE

Name: Tomasz Skwarnicki
Professor of Physics

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Research Interests:
Experimental Elementary Particle Physics.

Employment History :

8/00 – Professor, **Syracuse University**, Syracuse, NY.
8/95 – 7/00 Associate Professor, **Syracuse University**, Syracuse, NY.
8/92 – 7/95 Assistant Professor, **Southern Methodist University**, Dallas, TX.
5/92 – 8/92 Visiting Scientist, **Superconducting Super Collider**, Dallas, TX.
8/89 – 5/92 Assistant Professor, **Syracuse University**, Syracuse, NY.
1/88 – 8/89 Postdoctoral Fellow, **Syracuse University**, Syracuse, NY.
8/85 – 12/87 Postdoctoral Fellow, **DESY**, Hamburg, Germany.
2/84 – 8/85 Research Assistant, **DESY**, Hamburg, Germany.
9/82 – 1/84 Research Assistant, **Institute of Nuclear Physics**, Krakow, Poland.

Other appointments :

7/07 – 8/07 Guest Scientist , **L.A.P.P. Annecy**, France

Education: Ph.D.: **Institute of Nuclear Physics**, Krakow, Poland.
Ph.D. in Physics, 1986. Dissertation title:
*“A Study of the Radiative Cascade Transitions
Between the Upsilon-prime and Upsilon Resonances.”*

M.Sc.: **Jagiellonian University**, Krakow, Poland.
M.Sc. in Physics, 1982. Diploma title:
*“A Study of the μ -pair Cross Section
in the e^+e^- Annihilation”*

Membership in Professional Societies:

American Physical Society

Awards and Honors:

Award of the Counsel of Atomic Research in Poland, 1986,
for the thesis dissertation.

SSC fellowship, Texas National Research Laboratory Commission, 1993.

Outstanding Junior Investigator, Department of Energy Award, 1993-94.

Fellow of the American Physical Society, 2001.

Member of Physics Advisory Committee for the BELLE experiment, KEK, Japan, 2007-2012

“Pole of the Year” award from Polish Scholarship Fund, Syracuse, 2008.

Chancellor’s Citations for Faculty Excellence and Scholarly Distinction,
Syracuse University, 2008.

Invited talks at National and International Conferences on High Energy Physics:

1. “Exotic states and charmoium production”, Talk at FPCP - Flavor Physics and CP Violation, Buzios, Rio de Janeiro, Brasil, May 19-24, 2013.
2. “Exotic Mesons at LHCb”, 12th International Workshop on Meson Production, Properties and Interaction, Krakow, Poland, May 31 - June 5, 2012.
3. “Search for new physics at LHCb”, Invited lecture at Cracow School of Theoretical Physics, Zakopane, Poland, May 19, 2012.
4. “Studies of rare B decays at LHCb”, Chicago 2012 Workshop on LHC physics, University of Chicago, May 3, 2012.
5. “LHCb: recent results and future potential”, Talk at Workshop on High Energy Physics Phenomenology XII Mahabaleswar, India, Jan 2-15, 2012.
6. “B Physics at LHC”, Talk at Fundamental Physics at the Intensity Frontier, Rockville, MD, Nov. 30 - Dec. 2, 2011.
7. “LHCb Upgrade”, T. Skwarnicki,
Talk at Discrete2010, Symposium on Prospects in the Physics of Discrete Symmetries, Rome, Italy, Dec. 6-11, 2010.
8. “First Results from LHCb”, T. Skwarnicki,
Talk at LHC Days in Split, Croatia, Oct. 6-9, 2010.

9. “Recent CLEO Results on quarkonium spectroscopy”, T. Skwarnicki,
Talk at Excited QCD 2010, Tatra National Park, Slovakia, Jan. 31 - Feb. 6, 2010.
10. “Semileptonic decays of D mesons at CLEO”, T. Skwarnicki,
Talk at European Physical Society Europhysics Conference on High Energy Physics,
Krakow, Poland, July 16-22, 2009.
11. “Early Physics in LHCb”, T. Skwarnicki,
Talk at Berkeley Workshop on Physics Opportunities with the first LHC data Berkeley,
USA, May 6-8, 2009.
12. “Recent CLEO Results”, T. Skwarnicki,
Talk at 10th International Workshop on Meson Production, Properties and Interaction,
Krakow, Poland, June 6-10, 2008.
13. “Future b and c experiment with hadron machine”, T. Skwarnicki,
Talk at FPCP2008, Conference on flavor physics and CP violation, Taipei, Taiwan,
May 5-9, 2008.
14. “Semileptonic D Decays”, T. Skwarnicki,
Talk at FPCP2008, Conference on flavor physics and CP violation, Taipei, Taiwan,
May 5-9, 2008.
15. “Measurement of R in various energy regions”, T. Skwarnicki,
Talk at Moriond QCD and High Energy Interactions, La Thuile, Aosta Valley, Italy,
Mar 8-15, 2008.
16. “LHCb Status and Physics”, T. Skwarnicki,
Talk at 2007 Aspen Winter Conference on “New Physics at the Electroweak Scale and
New Signals at Hadron Colliders”, Jan 8-13, 2007, Aspen, Colorado
17. “Study of Dynamics of pi pi Transitions Among Upsilon(3S), Upsilon(2S) and Up-
silon(1S) in CLEO”, T. Skwarnicki,
Talk at Joint Meeting of Pacific Region Particle Physics Communities(DPF2006), Oct.
29- Nov. 3, 2006, Honolulu, Hawaii
18. “Precision D0 Mass Measurement at CLEO-c”, T. Skwarnicki,
Talk at Joint Meeting of Pacific Region Particle Physics Communities(DPF2006), Oct.
29- Nov. 3, 2006, Honolulu, Hawaii
19. “Charmonium Decays in CLEO”, T. Skwarnicki,
Talk at 33rd International Conference on High Energy Physics, July 26 - Aug 2, 2006,
Moscow(ICHEP06)
20. “The BTeV RICH”, T. Skwarnicki,
Talk at “Hadron Collider Physics Symposium 2005”, Les Diablerets, Switzerland, 4-9
July 2005.

21. “Beam Test of C4F8O-MAPMT RICH Detector”, T. Skwarnicki,
Talk at “Highlights of B-Factories Symposium”, Balice, Poland, 27-29 June 2005.
22. “CLEO-c results on transitions from $\psi(3770)$ to charmonium states”, T. Skwarnicki,
Talk at “Highlights of B-Factories Symposium”, Balice, Poland, 27-29 June 2005.
23. “Cleo Results on Transitions in Heavy Quarkonia”, T. Skwarnicki,
Talk at 40th Rencontres De Moriond On QCD And High Energy Hadronic Interactions,
La Thuile, Aosta Valley, Italy, 12-19 Mar 2005, e-Print Archive: hep-ex/0505050.
24. “Recent CLEO Results on Hadron Spectroscopy”, T. Skwarnicki,
Talk presented at Cracow Epiphany Conference on Hadron Spectroscopy, Cracow,
Poland, Jan 6-8, 2005. Published in Acta Phys. Polon. **B36**, 2329 (2005).
25. “BTeV RICH Design and Status of Development”, T. Skwarnicki,
Talk at 5th International Workshop on Ring Imaging Cherenkov Counters (RICH2004),
Playa del Carmen, Mexico, Nov 30 - Dec 5, 2004.
26. “Heavy quarkonium, Production and Spectroscopy”, T. Skwarnicki,
Talk presented at 21th International Symposium on Lepton-Photon Interactions, Fer-
milab, Batavia, Illinois, Aug 11-16, 2003, Int. J. Mod. Phys. A **19**, 1030 (2004).
27. “Upsilon spectroscopy in CLEO”, T. Skwarnicki,
Talk presented at “QCD@Work 2003”, International Workshop on Quantum Chromo-
dynamics Theory and Experiment, Conversano (Bari, Italy), June 14-18, 2003.
28. “Bottomonium studies via Upsilon(3S) decay at CLEO. First observation of Upsilon(1D)”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented at the 31th International Conference on High Energy Physics, Amster-
dam, July 24-31, 2002, to be published in the proceedings.
29. “Pattern recognition and physics performance with the CLEO-III RICH detector”, T.
Skwarnicki,
Talk presented at the 4th International Workshop on Ring Imaging Cherenkov Detec-
tors, June 5-10, 2002, Pylos, Greece, to be published in the proceedings.
30. “Preliminary estimates of CLEO-III sensitivity to $\eta_b(nS)$ states in inclusive photon
spectra from $\Upsilon(nS)$ resonances”, T. Skwarnicki,
Talk presented at the Workshop on Prospects for CLEO/CESR with $3 < E_{CM} < 5$
GeV, Parallel session on Charmonium and Bottomonium Spectroscopy, May 5-7, 2001,
Ithaca, NY.
31. “Overview of BTeV Experiment”, T. Skwarnicki for the BTeV Collaboration,
Talk presented at “BEAUTY-2000” - 7th International Conference on B-Physics at
Hadron Machines, September 13-18, 2000, Sea of Galilee, Israel, published in the pro-
ceedings, Nucl. Inst. and Methods **A462**, 227 (2001).

32. “Simulations of $B \rightarrow \rho\pi$ in BTeV”, T. Skwarnicki for the BTeV Collaboration,
Talk presented at the 2nd Workshop on “B Physics at the Tevatron Run II and Beyond”,
Parallel Session on CP Violation, February, 2000, Fermilab
33. “First Results From the CLEO III RICH”,
T. Skwarnicki for the CLEO RICH group,
Talk presented at the 3rd International Conference on B Physics and CP Violation,
December 3-7, 1999, Taipei, Taiwan, published in the proceedings H.-Y. Cheng, W.-
S. Hou (Eds.), World Scientific Publishing Co., 2000, p. 40.
34. “Experimental Review of Radiative B Decays”,
T. Skwarnicki,
Talk presented at the 3rd International Conference on B Physics and CP Violation,
December 3-7, 1999, Taipei, Taiwan, published in the proceedings H.-Y. Cheng, W.-
S. Hou (Eds.), World Scientific Publishing Co., 2000, p. 202.
35. “BTeV Experiment”, T. Skwarnicki for the BTeV Collaboration,
Talk presented at the Workshop on “B Physics at the Tevatron Run II and Beyond”,
Parallel Session on CP Violation, September 23-25, 1999, Fermilab
36. “CLEO-III RICH Detector”,
T. Skwarnicki for the CLEO RICH group,
Talk presented at the International Europhysics Conference on High Energy Physics,
Tampere, Finland, July , 1999, Parallel Session on Detector Technologies, published in
the proceedings, K. Huitu, H. Kurki-Suonio, J. Maalampi (Eds.), Institute of Physics
Publishing, London, p. 1003
37. “Update on $b \rightarrow s\gamma$ and $b \rightarrow sl^+l^-$ from CLEO”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented at the 29th International Conference on High Energy Physics, Vancou-
ver, July-August 1998; published in the proceedings, A. Astbury, D. Axen, J. Robinson
(Eds.), World Scientific Publishing Co., 1999, p. 1057
38. “BTeV RICH”,
T. Skwarnicki,
Talk presented at 5th International Conference on B-Physics at Hadron Machines, Uni-
versity of California, Los Angeles, 13-17 October, 1997; published in the proceedings,
Nucl. Inst. and Methods **A408**, 204 (1998).
39. “Experimental Review of Electroweak Penguin Decays of b Quark”,
T. Skwarnicki,
Talk presented at the 7th International Symposium on Heavy Flavor Physics, University
of California, Santa Barbara, July 7-11, 1997.
40. “CLEO Results on Hadronic B Decays”,
T. Skwarnicki for the CLEO Collaboration,

- Talk presented at the 28th International Conference on High Energy Physics, Warsaw, July-August 1996; published in the proceedings, Z. Ajduk, A.K. Wroblewski (Eds.), World Scientific Publishing Co., 1997, p. 897.
41. “Decays of b -quark”,
T. Skwarnicki,
Talk presented at the 17th International Symposium on Lepton-Photon Interactions, Beijing, China, August 10-15, 1995; published in the proceedings, Zheng Zhi-Peng, Chen He-Sheng (Eds.), World Scientific Publishing Co., 1996, p. 238.
 42. “Future Prospects at CLEO/CESR”,
T. Skwarnicki for the CLEO collaboration,
Talk presented at the 6th International Symposium on Heavy Flavour Physics”, Pisa, Italy, June 6-10, 1995; published in the proceedings, F.Constantini, M.Giorgi (Eds.), Societa Italiana di Fisica, 1996, p. 1095.
 43. “First Measurement of Inclusive $b \rightarrow s\gamma$ Rate”,
T. Skwarnicki for the CLEO collaboration,
Talk presented at the Joint Fall Meeting of the Texas Section of the APS, AAPT, and Zone 13 of the SPS, University of Texas at Austin, Austin, TX, 14-15 October, 1994.
 44. “Summary of Tau Physics Results”,
T. Skwarnicki,
Summary of parallel session presented at the 8th Meeting of the Division of Particles and Fields of the American Physical Society, Albuquerque, New Mexico, 2-6 August, 1994.
 45. “Status of Tau Physics”,
T. Skwarnicki,
Review talk presented at the Joint Meeting of the American Physical Society and the American Association of Physics Teachers, Crystal City, VA, 18-22 April, 1994.
 46. “CLEO-II Calorimeter”,
T. Skwarnicki,
Talk presented at the B factory workshop at Stanford Linear Accelerator Center, Stanford, CA, Nov.30-Dec.4, 1993
 47. “CLEO-II Results on τ Decays to η ”,
T. Skwarnicki for the CLEO collaboration,
Talk presented at the Second Workshop on Tau Lepton Physics, The Ohio State University, Columbus, OH, Sept. 8-11, 1992, K.K. Gan (Ed.) World Scientific, 1993, p. 217.
 48. “Performance of the CLEO-II CsI(Tl) Calorimeter”,
T. Skwarnicki,
Talk presented at “B factories, The State of the Art in Accelerators, Detectors and

- Physics”, Stanford Linear Accelerator Center, Stanford, CA, April 6-10, 1992, D. Hitlin (Ed.) SLAC-400, CONF-9204126, p. 526.
49. “ Υ Spectroscopy at B Factory”,
T. Skwarnicki,
Talk presented at the TRIUMF-IPP B Factory Workshop, Vancouver, B.C. Canada, 14-15 February 1991, CLNS 91-1049, HEPHY 91-1, Feb. 1991.
 50. “Preliminary CLEO-II Results on Radiative Transitions from the $\Upsilon(3S)$ ”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented at the 25th International Conference on High Energy Physics, Singapore, 2-8 August 1990, Parallel Session on Hadron Spectroscopy and Photon-photon Collisions; Contributed Paper #748; published in the proceedings, K.K.Phua, Y.Yamaguchi (Eds.), South East Asia Theoretical Physics Association and Physical Society of Japan, 1991, p. 550.
 51. “Initial Performance of the CLEO-II CsI Calorimeter”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented at the 25th International Conference on High Energy Physics, Singapore, 2-8 August 1990, Parallel Session on Detector R&D; Contributed Paper #747; published in the proceedings, K.K.Phua, Y.Yamaguchi (Eds.), South East Asia Theoretical Physics Association and Physical Society of Japan, 1991, p. 1359.
 52. “ τ and Υ Physics with CLEO-II”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented to the HEPAP subpanel meeting at Ithaca, February 8, 1990.
 53. “Radiative Transitions in the Υ System (Future Prospects)”, T. Skwarnicki,
Talk presented at the Workshop Towards Establishing a b -Factory, Syracuse University, Syracuse, New York, September 6-9, 1989, published in the proceedings, M. Goldberg, S. Stone (Ed.), Syracuse University 1989, p. 1.113.
 54. “Tau Decays To Multiphoton Final States”, T. Skwarnicki,
Talk presented at the Tau-Charm Factory Workshop, SLAC, Stanford, California, May 23-27, 1989, published in the proceedings, L.V. Beers (Ed.), SLAC-Report-343, p. 519.
 55. “CLEO Results on Charmed Hadron Spectroscopy”,
T. Skwarnicki for the CLEO Collaboration,
Talk presented at the 24th Recontres de Moriond “New Results in Hadronic Interactions”, Les Arcs, France, March 12-18, 1989, published in the proceedings, J. Tran Thanh Van (Ed.), Gif-sur-Yvette : Editions Frontieres, 1989, p. 575.
 56. “ B Meson Physics With The Crystal Ball Detector”,
T. Skwarnicki for the Crystal Ball Collaboration,
Talk presented at the International Symposium on Production and Decay of Heavy Flavors, Stanford, California, Sept. 1-5, 1987, published in the proceedings, E. Bloom, A. Fridman (Ed.), Annals of New York Academy of Sciences, Vol. 535, p. 303.

57. “Tau Decays to π^0 's and η 's”, T. Skwarnicki,
Review talk presented at the International Europhysics Conference on High Energy Physics, Uppsala, Sweden, June 25-July 1, 1987, Parallel Session on Weak Decays, published in the proceedings, O. Botner (Ed.), Uppsala University, 1987, p. 334.
- “Search For Tau Decays To The Eta Meson”, T. Skwarnicki,
SLAC-PUB-4506, DESY 87-166.
58. “Crystal Ball Results on the Inclusive Electron Spectrum in $\Upsilon(4S)$ Decays”,
T. Skwarnicki for the Crystal Ball Collaboration,
Talk presented at the 23rd International Conference on High Energy Physics, Berkeley, CA, July 16-23, 1986, Parallel Session 11, published in the proceedings, S.C. Loken (Ed.), World Scientific Publishing Co., 1987, p. 778.
59. “Electron Endpoint Spectrum in $\Upsilon(4S)$ Decays”,
T. Skwarnicki for the Crystal Ball Collaboration,
Talk presented at the International Symposium on Production and Decay of Heavy Hadrons, Heidelberg, Germany, May 20-23, 1986, published in the proceedings, K.R. Schubert, R. Waldi (Ed.), DESY, 1986, p. 146.
60. “Spin Analysis of The χ_b States”,
T. Skwarnicki for the Crystal Ball Collaboration,
Talk presented at the 20th Recontres de Moriond “QCD and Beyond”, Les Arcs, France, March 10-17, 1985, published in the proceedings, J. Tran Thanh Van (Ed.), Vol. 1, Gif-sur-Yvette : Editions Frontieres, 1985, DESY 85-042.

Seminars and Colloquia:

1. “Determination of the X(3872) meson quantum numbers”, Collider Cross Talk, **CERN**, Geneva, Switzerland, May 30, 2013.
2. “Searching for BSM physics in LHCb”, Seminar at **UMass**, Amherst, MA, Apr 2012.
3. “Recent results from LHCb”, Colloquium at **Syracuse University**, Syracuse, NY, Nov 2011.
4. “Recent results from LHCb”, Seminar at **Univeristy of Colorado**, Boulder, CO, Sept 2011.
5. “Recent results from LHCb”, Seminar at **LBL, Berkeley**, CA, July 2011.
6. “Recent results from LHCb”, Seminar at **SLAC, Palo Alto**, CA, July 2011.
7. “Recent results from LHCb”, Journal Club at **Cornell University**, Ithaca, NY, May 2011.
8. “Status of the LHCb Experiment”, Colloquium at **University of Virginia**, Charlottesville, VA, 2010.
9. “The LHCb Experiment”, Colloquium at **Southern Methodist University**, Dallas, TX, 2010.

10. "Large Hadron Collider: Physics Goals and Technological Challenges", Outreach talk to local high school teachers, **Syracuse University**, Syracuse, NY, 2008.
11. "LHCb Experiment", Colloquium at **Syracuse University**, Syracuse, NY, 2007
12. "Upsilon and Charmonium Spectroscopy at CLEO", Seminar at **University of Chicago**, IL, 2004
13. "Heavy quarkonium", Colloquium at **Syracuse University**, Syracuse, NY, 2003.
14. "CLEO III Upsilon Resonance Program", Presentation to the Physics Advisory Committee at **Cornell University**, Ithaca, NY, 2001.
15. "CLEO and BTeV Experiments", Colloquium at **Syracuse University**, Syracuse, NY, 1999
16. "Rare Decays of B Mesons", Seminar at **DESY**, Hamburg, Germany, 1995.
17. "Rare Decays of B Mesons", Seminar at **Institute of Nuclear Physics**, Krakow, Poland, 1995.
18. "The Observation of Electromagnetic Penguin Decays of b-quark", Colloquium at **California Institute of Technology**, Pasadena, CA, 1995.
19. "First measurement of inclusive $b \rightarrow s\gamma$ rate by CLEO-II", Colloquium at **Syracuse University**, Syracuse, NY, 1994.
20. "First measurement of inclusive $b \rightarrow s\gamma$ rate by CLEO-II", Colloquium at **University of Texas at Arlington**, Arlington, TX, 1994.
21. "First measurement of inclusive $b \rightarrow s\gamma$ rate by CLEO-II", Seminar at **Brookhaven**, Long Island, NY, 1994.
22. "First measurement of inclusive $b \rightarrow s\gamma$ rate by CLEO-II", Seminar at **Fermilab**, Batavia, IL, 1994.
23. "First measurement of inclusive $b \rightarrow s\gamma$ rate by CLEO-II", Seminar at **DESY**, Hamburg, Germany, 1994.
24. "Status of τ Physics", Seminar at **Southern Methodist University**, Dallas, TX, 1994.
25. " Υ Spectroscopy", Colloquium at **Cornell University**, Ithaca, NY, 1994.
26. " Υ Spectroscopy", Seminar at **Rensselaer Polytechnic Institute**, Troy, NY, 1991.
27. "CLEO-II Results on τ Decays", Seminar at **Argonne National Laboratory**, Argonne, IL, 1991
28. " τ Physics", Colloquium at **Syracuse University**, Syracuse, NY, 1988
29. "Crystal Ball Results on τ Decays", Colloquium at **DESY**, Hamburg, West Germany, 1987
30. "Recent Crystal Ball Results on τ Decays", Seminar at **MIT**, Cambridge, MA, 1987
31. "Recent Crystal Ball Results on τ Decays", Seminar at **Harvard University**, Cambridge, MA, 1987
32. "Recent Crystal Ball Results on τ Decays", Seminar at **Cornell University**, Ithaca, NY, 1987
33. " Υ Spectroscopy", Colloquium at **Syracuse University**, Syracuse, NY, 1987
34. "Recent Results from Crystal Ball", Seminar at **Syracuse University**, NY, 1987
35. "Recent Crystal Ball Results on τ Decays", Seminar at **Fermilab**, Batavia, IL, 1987
36. " τ Physics in Crystal Ball", Seminar at **Institute of Nuclear Physics**, Krakow, Poland, 1987

37. “Electron Endpoint Spectrum in B Decays”, Seminar at **SLAC**, Stanford, CA, 1986
38. “Crystal Ball Results on Υ Spectroscopy”, Talk at Cracow-Munich Meeting, **Max Plank Institute**, Munich, 1986
39. “ Υ Spectroscopy”, Seminar at **University of Siegen**, West Germany, 1985
40. “Spin Analysis of the χ_b States”, Seminar at **Erlangen-Nürnberg University**, Erlangen, West Germany, 1985
41. “Observation of $\Upsilon(1P)$ states by Crystal Ball at DORIS”, Talk at Cracow-Munich Meeting, **Max Plank Institute**, Munich, West Germany, 1984
42. “ Υ Spectroscopy”, Seminar at **Institute of Nuclear Physics**, Krakow, Poland, 1983

LIST OF PUBLICATIONS

LHCb EXPERIMENT

1. “Study of forward Z+jet production in pp collisions at $\sqrt{s} = 7$ TeV,” R. Aaij *et al.*, JHEP **1401**, 033 (2014).
2. “Search for CP violation in the decay $D^+ \rightarrow \pi^- \pi^+ \pi^+$,” R. Aaij *et al.*, Phys. Lett. B **728**, 585 (2014).
3. “Measurement of D0-D0bar mixing parameters and search for CP violation using D0- \bar{D}^0 decays,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 251801 (2013).
4. “Measurement of CP violation in the phase space of $B^\pm \rightarrow K^+ K^- \pi^\pm$ and $B^\pm \rightarrow \pi^+ \pi^- \pi^\pm$ decays,” R. Aaij *et al.*, Phys. Rev. Lett. **112**, 011801 (2014).
5. “Search for the decay $D^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$,” R. Aaij *et al.*, Phys. Lett. **B728**, 234 (2014).
6. “Search for the doubly charmed baryon Ξ_{cc}^+ ,” R. Aaij *et al.*, JHEP **1312**, 090 (2013).
7. “Measurement of the charge asymmetry in $B^\pm \rightarrow \phi K^\pm$ and search for $B^\pm \rightarrow \phi \pi^\pm$ decays,” R. Aaij *et al.*, Phys. Lett. B **728**, 85 (2014).
8. “Observation of the decay $B_c^+ \rightarrow J/\psi K^+ K^- \pi^+$,” R. Aaij *et al.*, JHEP **1311**, 094 (2013).
9. “Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+ \mu^-$ decays at the LHCb experiment,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 101805 (2013).
10. “First observation of $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ and search for $\bar{B}^0 \rightarrow J/\psi \phi$ decays,” R. Aaij *et al.*, Phys. Rev. D **88**, 072005 (2013).
11. “Observation of the decay $B_c^+ \rightarrow \bar{D}^0 \pi^+$,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 181801 (2013)
12. “Measurement of the CP asymmetry in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 151801 (2013)
13. “Study of $B_{(s)}^0 \rightarrow K_S^0 h^+ h'^-$ decays with first observation of $B_s^0 \rightarrow K_S^0 K^\pm \pi^\mp$ and $B_s^0 \rightarrow K_S^0 \pi^+ \pi^-$,” R. Aaij *et al.*, JHEP **1310**, 143 (2013).
14. “Model-independent search for CP violation in $D^0 \rightarrow K^- K^+ \pi^- \pi^+$ and $D^0 \rightarrow \pi^- \pi^+ \pi^+ \pi^-$ decays,” R. Aaij *et al.*, Phys. Lett. B **726**, 623 (2013).
15. “First measurement of time-dependent CP violation in $B_s \rightarrow \bar{D}^0 K^+ K^-$ decays,” R. Aaij *et al.*, JHEP **1310**, 183 (2013).
16. “Observation of a resonance in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays at low recoil,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 112003 (2013).

17. “First evidence for the two-body charmless baryonic decay $B^0 \rightarrow p\bar{p}$,” R. Aaij *et al.*, JHEP **1310**, 005 (2013).
18. “Measurement of form-factor independent observables in the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$,” R. Aaij *et al.*, Phys. Rev. Lett. **111** 191801 (2013).
19. “Observation of B_s^0 - \bar{B}_s^0 mixing and measurement of mixing frequencies using semileptonic B decays,” R. Aaij *et al.*, Eur. Phys. J. **C73**, 2655 (2013).
20. “Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow J/\psi K_S^0$ decays,” R. Aaij *et al.*, Phys. Lett. B **721**, 24 (2013).
21. “Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_S^0\pi^+$ and $B^+ \rightarrow K_S^0K^+$,” R. Aaij *et al.*, Phys. Lett. B **726**, 646 (2013).
22. “Measurement of the flavour-specific CP -violating asymmetry a_{sl}^s in B_s^0 decays,” R. Aaij *et al.*, Phys. Lett. **B728C** 607 (2014).
23. “Precision measurement of the Λ_b^0 baryon lifetime,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 102003 (2013).
24. “Studies of the decays $B^+ \rightarrow p\bar{p}h^+$ and observation of $B^+ \rightarrow \bar{\Lambda}(1520)p$,” R. Aaij *et al.*, Phys. Rev. D **88**, 052015 (2013).
25. “Search for the lepton-flavor violating decays $B_s^0 \rightarrow e^\pm\mu^\mp$ and $B^0 \rightarrow e^\pm\mu^\mp$,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 141801 (2013).
26. “Searches for $B_{(s)}^0 \rightarrow J/\psi p\bar{p}$ and $B^+ \rightarrow J/\psi p\bar{p}\pi^+$ decays,” R. Aaij *et al.*, JHEP **1309**, 006 (2013)
27. “Measurement of the relative rate of prompt χ_{c0} , χ_{c1} and χ_{c2} production at $\sqrt{s} = 7\text{TeV}$,” R. Aaij *et al.*, JHEP **1310**, 115 (2013).
28. “Measurement of CP violation in the phase space of $B^\pm \rightarrow K^\pm\pi^+\pi^-$ and $B^\pm \rightarrow K^\pm K^+K^-$ decays,” R. Aaij *et al.*, Phys. Rev. Lett. **111**, 101801 (2013).
29. “Study of D_J meson decays to $D^+\pi^-$, $D^0\pi^+$ and $D^{*+}\pi^-$ final states in pp collision,” R. Aaij *et al.*, JHEP **1309**, 145 (2013).
30. “Measurement of the differential branching fraction of the decay $\Lambda_b^0 \rightarrow \Lambda\mu^+\mu^-$,” R. Aaij *et al.*, Phys. Lett. B **725**, 25 (2013).
31. “Observation of $B_s^0 \rightarrow \chi_{c1}\phi$ decay and study of $B^0 \rightarrow \chi_{c1,2}K^{*0}$ decays,” R. Aaij *et al.*, Nucl. Phys. B **874**, 663 (2013).
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