

Dr. Steven R. Blusk

Current Position	Syracuse University, Associate Professor Syracuse University, Assistant Professor	2007 - present July 2001-2007
Education	University of Pittsburgh 1995, Ph. D. Experimental Particle Physics Dissertation: “ <i>Measurement of the Production Cross Section of Charm Mesons at High Transverse Momentum in 515 GeV/c π-Nucleon Collisions</i> ” 1989, M.S. Physics	Pittsburgh, PA
	Potsdam College 1988 B.A. (Physics, Mathematics)	Potsdam, N.Y.
Research	Syracuse University CLEO-c Experiment (2001-present): Analysis of data collected in e^+e^- collisions. Specifically, I have worked on charm baryon decays, Upsilon decays and D meson decays, focusing mostly on issue of strong interaction dynamics BTeV Experiment (2001-2005): I was responsible for the photodetector system for the BTeV RICH as well as R&D on an appropriate Cherenkov gas radiator. Details of the R&D work can be found at http://phy.syr.edu/~sblusk/mapmt/ . LHCb Experiment (2005-present): Global alignment coordinator from 2005-2008, and Survey Task Force coordinator from 2007-2008. Responsible for overseeing the efforts to develop software algorithms capable of aligning all LHCb sub-detectors. Also responsible for importing all detector survey data into the geometry databases. Studies of open charm decays and measurement of the weak phase γ .	Syracuse, N.Y.
	University of Rochester 1996 - 2001: Research Associate, working on the CDF Experiment at Fermilab	Rochester, N.Y.
	<input type="checkbox"/> CDF Experiment <ul style="list-style-type: none">◆ Worked on various measurements related to the top quark. Responsible for design and construction of the cooling and interlock systems for the silicon vertex detector. I was also involved in several other areas related to the power distribution system.	
	University of Pittsburgh 1990-1995: Graduate Student on Direct Photon Experiment E706 at Fermilab	Pittsburgh, PA
	<input type="checkbox"/> Measured charm production cross-section at high transverse momentum. Significant contributions to the design & construction of the silicon vertex detector as well as tracking software.	

Teaching	Syracuse University		Syracuse, NY	
	Semester	Title	Enrollment	Audience
	Fall 2001	Freshman Forum	14	New students in CAS
	Spring 2002	Science for the 21 st Century	MC*: 165 UC**: 10	Non-science majors
	Fall 2002	Graduate Particle Physics	7	Graduate Students
	Spring 2003	Science for the 21 st Century	163	Non-science majors
	Fall 2003	Physics Journal Workshop	8	Undergraduate Physics Majors
	Spring 2004	Science for the 21 st Century	MC: 62 UC: 16	Non-science majors
	Fall 2004	Electromagnetics I	31	Physics and Engineering Majors
	Fall 2005	Electromagnetics I	41	Physics and Engineering Majors
	Spring 2006	General Physics 2 Honors Section	8	Honors science students
	Fall 2006	Problems in Contemporary Physics	4	Advanced physics majors, grad school
	Spring 2007	Physics 1 Lab	382	Engineering students
		Physics 2 Lab	157	Engineering students
		Journal Workshop	4	Physics majors
	Fall 2007	Electromagnetics I	32	Physics and Engineering Majors
	Spring 2008	Physics for Architects	70	Architecture students
	Fall 2008	Problems in Contemporary Physics	6	Advanced physics majors, grad school
	Spring 2009	Physics for Architects	90	Architecture students
	Fall 2009	Graduate Quantum Mechanics	16	Graduate students
	Spring 2010	Physics I+Recitation	~450	Mostly engineers, co-taught with Prof. Skwarnicki
	Fall 2010	Graduate Quantum Mechanics	11	Graduate students
	Spring 2011	PHY211 – recitations	532	
	Spring 2012	PHY102 – College Physics 2	162	
	Fall 2012	PHY424 – Electrodynamics I	16	
		PHY490 – Indep Study	1	
	Spring 2013	PHY102 – College Physics 2	151	
		PHY490 – Indep Study	2	
	Fall 2013	PHY424 – Electrodynamics I	15	
		PHY490 – Indep Study	2	

* MC = Main Campus Section, ** UC = University College, night section.

Academic Awards/

- Andrew Mellon Pre-Doctoral Fellowship (1989-1991)
- Voted to Nations' Deans List (1988)
- Departmental Scholar (1987-1988)
- Inducted into ΠΙΜΕ Math Honor Society and ΣΠΣ Honor Society (1987)
- President's List (1985)

Invited Talks/ Conference Participation (since 2001)

- Invited Talk (20 min): "*Design and Performance of the BTeV RICH*", Fourth Workshop on RICH Detectors, Nestor Institute, Pylos, Greece, June 5-10, 2002.
- Invited Talk (1 hr): "*B Physics, Now and Tomorrow*", University of Rochester, July 18, 2002.
- Invited Talk (1 hr): "*Getting to the Bottom of CP Violation*", University of Pittsburgh, April 2, 2004.
- Invited Talk (1 hr): "*BTeV: Getting to the Heart of New Physics*", Cornell University, April 6, 2004.
- Invited Talk (15 min): "*Upsilon Decays at CLEO*", presented at the 32nd International Conference on High Energy Physics (ICHEP04), Beijing, China, Aug 16-22, 2004.
- Invited Colloquium (1 hr): "*CLEO: A Beautiful Past and a Charming Future*", University of California at Davis, March 8, 2005.
- Invited Seminar: "*Probing the Standard Model using Heavy Quark Resonances*", University of California at Los Angeles (UCLA), March 10, 2005.
- Invited Talk (15 min): "*Measurements of Hadronic, Semileptonic and Leptonic Decays of D Mesons at $E_{cm}=3.77$ GeV in CLEO-c*", presented at the XXXXth Recontres de Moriond, LaThuile, Italy, March 12-19, 2005.
- Invited Talk (30 min): "*LHCb Global Alignment*", presented at the Cambridge Workshop on the LHCb Global Alignment, Jan 12-13, 2006.
- Invited Talk (1 hr): "*A Tour of the Subatomic Cosmos and the Tools of Discovery*", March 25, 2006, Cornell University.
- Invited Talk (1 hr): "*A Tour of the Subatomic Cosmos and the Tools of Discovery*", April 11, 2006, Syracuse University.
- Invited Talk (20 min): "*Open and Closed Charm production in the e^+e^- Collisions in the Energy Region from 3970 to 4260 MeV*", Conference on the Intersection of Nuclear and Particle Physics, Rio Grande, Puerto Rico, May 29 - June 3, 2006.
- Invited Talk (15 min): "*Cyber-infrastructure at Syracuse University and Applications in Physics Research*", Workshop on Cyber-infrastructure in New York State, Cornell University, July 11-12, 2006.
- Invited Talk (20 min): "*Hadronic Charm Decays in CLEO-c*", The XXXIII International Conference on High Energy Physics, Moscow

Russia, July 26 – Aug 2, 2006.

- Invited Talk (18 min): “*Cabibbo Allowed and Doubly-Cabibbo Suppressed $D \rightarrow K\pi$ Decays*”, The XXXIII International Conference on High Energy Physics, Moscow Russia, July 26 – Aug 2, 2006.
- Invited Scheduled Talk (30 min): “*Decays of the $Y(5S)$* ”, The 11th International Conference on B-Physics at Hadron Machines”, Oxford, United Kingdom, Sept 25-29, 2006.
- “*Beauty and Charm: An Assault on the Standard Model*” Colloquium at Syracuse University, Sept 19, 2006.
- “*Exploring the Subatomic Cosmos with Particle Smashers*”, public lecture at Café Scientifique, Ambrosia, Tues. Dec. 5, 2007, Syracuse, NY.
- “*Probing Mysteries of the Universe using Subatomic Particles*”, Syracuse Undergraduate Research Day, Nov 11, 2006.
- Invited Lecture: “*The Search for New Physics in B Decays at LHCb*”, Cornell University, Mar 9, 2007.
- Invited Talk: “*Leptonic D and D_s Decays at $c\bar{c}$ Threshold*”, CHARM 2007 Workshop at Cornell University, Aug 5-8, 2007.
- Invited Talk: “*First Alignment Geometry and Survey from LHCb*”, 2nd LHC Detector Alignment Workshop, Jun 25-26, 2007, CERN.
- Invited seminar: “*Search for New Physics at LHCb*”, Brookhaven National Lab, April 2008.
- “*Status of the LHCb Experiment*”, US LHC Users Meeting, Fermilab, Oct. 24, 2008.
- “*Beauty and the Dawn of the LHC*”, SPS Meeting, Syracuse University, Nov. 18, 2008.
- “*Probing Mysteries of the Universe using Subatomic Particles*”, Undergraduate Research Day, Syracuse University, Nov 22, 2008.
- “*Status of the LHCb Experiment*”, US LHC Users Meeting, Lawrence Berkeley National Lab, Sept 25-26, 2009.
- “*The Quest for New Physics with Charm and Beauty at LHCb*”, Syracuse Undergraduate Research Day, Nov. 2009.
- “*Searching for New Physics in CP Violation Measurements at LHCb*”, Division of Particles & Fields, Wayne State University, July 24-31, 2009.
- “*LHCb Early Results and Prospects: Hadronic Final States*”, *Brookhaven Forum 2010, A Space-Time Odyssey*, Brookhaven National Lab (May 26-28, 2010).
- Summary talk, “*CKM Physics: The Hunt for New Physics, Leave No Stone Unturned*” at “*Conference on the Intersection of Nuclear and Particle Physics*”, St. Petersburg, FL, May 29- June 3, 2012.
- “*Measurement of the CP parameters in $B_s \rightarrow D_s K$ and First Observation of $B_{(s)} \rightarrow D_s K \pi \pi$* ”, CKM conference, University of Cincinnati, Sept. 28-Oct. 3, 2012. [arXiv: 1212.4180](https://arxiv.org/abs/1212.4180).
- “*Studies of hadronic B decays to Open Charm mesons at LHCb*”, DPF Conference, Santa Cruz, CA, Aug. 13-18, 2013

Professional Activities

- Member of APS
- Member of Particle Data Group (2007 – present)
- Co-organizer of 1st LHC Detector Alignment Workshop, CERN, Sept 4-5, 2006)
- Co-organizer of 2nd LHC Detector Alignment Workshop, CERN, June, 25-26, 2007.
- Co-organizer of Vertex 2007 Conference, Lake Placid, NY, Sept 23-28, 2007.
- Organizing committee for FPCP 2009, Lake Placid, May 27-Jun 1, 2009.

Service to Community

- Developed and maintain the “Ask a Particle Physicist” web site. <http://phy.syr.edu/HEPOutreach/> (2003 – present)
- Organized a meeting & series of presentations to local high school teachers, “Particle PhysicsFest”, April 26, 2003.
- Cosmic Connections – work on developing cosmology exhibits for the local science museum, the MOST.
- Public lecture: “*Exploring the Subatomic Cosmos with Particle Smashers*”, public lecture at Café Scientifique, Ambrosia, Tues. Dec. 5, 2007, Syracuse, NY.
- TV5 interview on startup of the LHC, Sept 10, 2008.
- WSYR interview on the startup of the LHC, Sept 10, 2005.
- Visits to local high schools with grad student Koloina Randrianorivony to give presentations on particle physics and the startup of the LHC.
- Public lecture: “Quarks, Cosmos & You”, to be presented at the Museum of Science and Technology (MOST), Jan 17, 2009.
- Public lecture: “From Cosmic Evolution to the Big Bang Machine: discovering and connecting the footprints”, Potsdam College, NY., April 23, 2010.
- High school lecture: “From Cosmic Evolution to the Big Bang Machine”, Pennridge High School, Perkasio, PA (May 25, 2010).
- Run the Quarknet Outreach program at Syracuse University for high school teachers and students (yearly workshops in the summer)
- Invited talk: “Cosmic Connections: From the Big Bang to the LHC” at Weedsport high school, Dec 20. 2012.
- Undergraduate research talk: “Cracking the Standard Model with Beauty and Charm”, Syracuse University, Dec 1, 2012.
- Invited public lecture: "The God Particle - the Higgs boson", April 13, Campus Festival, Potsdam College.
- "Cracking the Standard Model with Beauty and Charm", Undergraduate research day, Syracuse University, Nov 2013

Publications for Prof. Steven Blusk, through July 2014

- 1) Updated measurements of exclusive J/ψ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s}=7$ TeV
By LHCb Collaboration (Roel Aaij et al.).
arXiv:1401.3288 [hep-ex].
- 2) Observation of associated production of a Z boson with a D meson in the~forward region
By LHCb Collaboration (Roel Aaij et al.).
arXiv:1401.3245 [hep-ex].
- 3) Updated Measurements of Absolute D^{*+} and D^{*0} Hadronic Branching Fractions and $\sigma(e^+e^-\to D\overline{D})$ at $E_{\text{cm}} = 3774$ MeV
By CLEO Collaboration (G. Bonvicini et al.).
arXiv:1312.6775 [hep-ex].
- 4) Measurement of the $\bar{B}_s^0 \to D_s^- D_s^+$ and $\bar{B}_s^0 \to D^+ D_s^-$ effective lifetimes
By LHCb Collaboration (R. Aaij et al.).
arXiv:1312.1217 [hep-ex].
- 5) Studies of beauty baryon decays to $D^0 p h^-$ and $\Lambda_c^+ h^-$ final states
By LHCb Collaboration (Roel Aaij et al.).
arXiv:1311.4823 [hep-ex].
- 6) Study of forward Z +jet production in pp collisions at $\sqrt{s} = 7$ TeV
By LHCb Collaboration (Roel Aaij et al.).
arXiv:1310.8197 [hep-ex].
[10.1007/JHEP01\(2014\)033](https://arxiv.org/abs/10.1007/JHEP01(2014)033).
JHEP01 (2014) 033.
- 7) Search for CP violation in the decay $D^{*+} \to \pi^-\pi^+\pi^+$
By LHCb Collaboration (R Aaij et al.).
arXiv:1310.7953 [hep-ex].
[10.1016/j.physletb.2013.12.035](https://arxiv.org/abs/10.1016/j.physletb.2013.12.035).
Phys.Lett. B728 (2014) 585.
- 8) Measurements of indirect CP asymmetries in $D^0 \to K^-K^+$ and $D^0 \to \pi^-\pi^+$ decays
By LHCb Collaboration (R Aaij et al.).
arXiv:1310.7201 [hep-ex].
- 9) Measurement of CP violation in the phase space of $B^{\pm} \rightarrow K^{\pm} K^{\mp} \pi^{\pm}$ and $B^{\pm} \rightarrow \pi^{\pm} \pi^{\mp} \pi^{\pm}$ decays
By LHCb Collaboration (Roel Aaij et al.).
arXiv:1310.4740 [hep-ex].
- 10) Search for the doubly charmed baryon Ξ_{cc}^+
By LHCb Collaboration (R Aaij et al.).
arXiv:1310.2538 [hep-ex].
[10.1007/JHEP12\(2013\)090](https://arxiv.org/abs/10.1007/JHEP12(2013)090).
JHEP 1312 (2013) 090.

- 11) Search for the decay $D^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1310.2535 [hep-ex].
[10.1016/j.physletb.2013.11.053](https://doi.org/10.1016/j.physletb.2013.11.053).
 Physics Letters B (2014) pp. 234-243.
- 12) Observation of $B^0(s) \rightarrow J/\psi f_1(1285)$ decays and measurement of the $f_1(1285)$ mixing angle
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1310.2145 [hep-ex].
- 13) Measurement of D^0 - D^0 bar mixing parameters and search for CP violation using $D^0 \rightarrow K^+ \pi^-$ decays
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1309.6534 [hep-ex].
[10.1103/PhysRevLett.111.251801](https://doi.org/10.1103/PhysRevLett.111.251801).
 Phys.Rev.Lett. 111 (2013) 251801.
- 14) Measurement of the charge asymmetry in $B^{\pm} \rightarrow \phi K^{\pm}$ and search for $B^{\pm} \rightarrow \phi \pi^{\pm}$ decays
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1309.3742 [hep-ex].
[10.1016/j.physletb.2013.11.036](https://doi.org/10.1016/j.physletb.2013.11.036).
 Phys.Lett. B728 (2014) 85-94.
- 15) Observation of the decay $B_c^+ \rightarrow J/\psi K^+ K^- \pi^+$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1309.0587, arXiv:1309.0587 [hep-ex].
[10.1007/JHEP11\(2013\)094](https://doi.org/10.1007/JHEP11(2013)094).
 JHEP 1311 (2013) 094.
- 16) Study of J/ψ production and cold nuclear matter effects in Pb - Pb collisions
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1308.6729 [nucl-ex].
- 17) First observation of $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ and search for $\bar{B}^0 \rightarrow J/\psi \phi$ decays
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1308.5916 [hep-ex].
[10.1103/PhysRevD.88.072005](https://doi.org/10.1103/PhysRevD.88.072005).
 Phys.Rev. D88 (2013) 072005.
- 18) Observation of the decay $B_s^0 \rightarrow \bar{D}^0 \phi$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1308.4583 [hep-ex].
[10.1016/j.physletb.2013.10.057](https://doi.org/10.1016/j.physletb.2013.10.057).
 Phys.Lett. B727 (2013) 403-411.
- 19) Observation of the decay $B_c^+ \rightarrow B_s^0 \pi^+$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1308.4544 [hep-ex].
[10.1103/PhysRevLett.111.181801](https://doi.org/10.1103/PhysRevLett.111.181801).
 Phys.Rev.Lett. 111 (2013) 181801.

20) Model-independent search for CP violation in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ and $D^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ decays

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.3189 [hep-ex].

[10.1016/j.physletb.2013.09.011](https://arxiv.org/abs/10.1016/j.physletb.2013.09.011).

Phys.Lett. B726 (2013) 623-633.

21) Measurement of form-factor independent observables in the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.1707 [hep-ex].

[10.1103/PhysRevLett.111.191801](https://arxiv.org/abs/10.1103/PhysRevLett.111.191801).

Phys.Rev.Lett. 111 (2013) 191801.

22) First measurement of time-dependent CP violation in $B_s \rightarrow K^+ K^-$ decays

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.1428 [hep-ex].

[10.1007/JHEP10\(2013\)183](https://arxiv.org/abs/10.1007/JHEP10(2013)183).

JHEP 1310 (2013) 183.

23) Measurement of the CP asymmetry in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays

By LHCb Collaboration (R. Aaij et al.).

arXiv:1308.1340 [hep-ex].

[10.1103/PhysRevLett.111.151801](https://arxiv.org/abs/10.1103/PhysRevLett.111.151801).

Phys.Rev.Lett. 111 (2013) 151801.

24) Observation of B^0 - \bar{B}^0 mixing and measurement of mixing frequencies using semileptonic B decays

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.1302 [hep-ex].

[10.1140/epjc/s10052-013-2655-8](https://arxiv.org/abs/10.1140/epjc/s10052-013-2655-8).

25) Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_{\text{S}}^0 \pi^+$ and $B^+ \rightarrow K_{\text{S}}^0 K^+$

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.1277 [hep-ex].

[10.1016/j.physletb.2013.09.046](https://arxiv.org/abs/10.1016/j.physletb.2013.09.046).

Phys.Lett. B726 (2013) 646-655.

26) Measurement of the flavour-specific CP -violating asymmetry $A_{\text{sl}}^{\text{CP}}$ in B_s^0 decays

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.1048 [hep-ex].

[10.1016/j.physletb.2013.12.030](https://arxiv.org/abs/10.1016/j.physletb.2013.12.030).

Physics Letters B 728C (2014), pp. 607-615.

27) First evidence for the two-body charmless baryonic decay $B^0 \rightarrow p \bar{p}$

By LHCb Collaboration (R Aaij et al.).

arXiv:1308.0961 [hep-ex].

[10.1007/JHEP10\(2013\)005](https://arxiv.org/abs/10.1007/JHEP10(2013)005).

JHEP 1310 (2013) 005.

28) 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 $B_{(s)}^0 \rightarrow K_{(s)}^0 \pi^+ \pi^{-}$ By LHCb Collaboration (R Aaij et al.).

arXiv:1307.7648 [hep-ex].

[10.1007/JHEP10\(2013\)143](https://arxiv.org/abs/10.1007/JHEP10(2013)143).

JHEP 1310 (2013) 143.

29) Observation of a resonance in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays at low recoil

By LHCb Collaboration (R Aaij et al.).

arXiv:1307.7595 [hep-ex].

[10.1103/PhysRevLett.111.112003](https://arxiv.org/abs/10.1103/PhysRevLett.111.112003).

Phys.Rev.Lett. 111 (2013) 112003.

30) Scientific Opportunities with the Long-Baseline Neutrino Experiment

By LBNE Collaboration (C. Adams et al.).

arXiv:1307.7335 [hep-ex].

31) Measurement of J/ψ polarization in pp collisions at $\sqrt{s}=7$ TeV

By LHCb Collaboration (R Aaij et al.).

arXiv:1307.6379 [hep-ex].

[10.1140/epjc/s10052-013-2631-3](https://arxiv.org/abs/10.1140/epjc/s10052-013-2631-3).

Eur.Phys.J. C73 (2013) 2631.

32) Studies of the decays $B^+ \rightarrow p \bar{p} h^+$ and observation of $B^+ \rightarrow \text{kern } 0.1\text{em} \bar{\text{kern}} - 0.1\text{em} \Lambda(1520) p$

By LHCb Collaboration (R Aaij et al.).

arXiv:1307.6165 [hep-ex].

[10.1103/PhysRevD.88.052015](https://arxiv.org/abs/10.1103/PhysRevD.88.052015).

Phys.Rev. D88 (2013) 052015.

33) Measurement of the $B^0_s \rightarrow \mu^+ \mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+ \mu^-$ decays at the LHCb experiment

By LHCb Collaboration (R. Aaij et al.).

arXiv:1307.5024 [hep-ex].

[10.1103/PhysRevLett.111.101805](https://arxiv.org/abs/10.1103/PhysRevLett.111.101805).

Phys.Rev.Lett. 111 (2013) 101805.

34) Search for the lepton-flavor violating decays $B^0_s \rightarrow e^{\pm} \mu^{\mp}$ and $B^0 \rightarrow e^{\pm} \mu^{\mp}$

By LHCb Collaboration (R. Aaij et al.).

arXiv:1307.4889 [hep-ex].

[10.1103/PhysRevLett.111.141801](https://arxiv.org/abs/10.1103/PhysRevLett.111.141801).

Phys.Rev.Lett. 111 (2013) 141801.

35) Study of $D_{(s)}$ meson decays to $D^+ \pi^-$, $D^0 \pi^+$ and $D^{*+} \pi^-$ final states in pp collision

By LHCb Collaboration (R Aaij et al.).

arXiv:1307.4556.

[10.1007/JHEP09\(2013\)145](https://arxiv.org/abs/10.1007/JHEP09(2013)145).

JHEP 1309 (2013) 145.

36) Measurement of the relative rate of prompt χ_{c0} , χ_{c1} and χ_{c2} production at $\sqrt{s}=7\text{TeV}$

By LHCb Collaboration (R. Aaij et al.).

arXiv:1307.4285.

[10.1007/JHEP10\(2013\)115](https://arxiv.org/abs/10.1007/JHEP10(2013)115).

JHEP 1310 (2013) 115.

37) Measurement of the polarization amplitudes in $B^0 \rightarrow J/\psi K^{*}(892)^0$ decays

By LHCb Collaboration (R. Aaij et al.).

arXiv:1307.2782 [hep-ex].

[10.1103/PhysRevD.88.052002](https://arxiv.org/abs/10.1103/PhysRevD.88.052002).

Phys.Rev. D88 (2013) 052002.

38) Precision measurement of the Λ_b^0 baryon lifetime

By LHCb Collaboration (R. Aaij et al.).

arXiv:1307.2476 [hep-ex].

[10.1103/PhysRevLett.111.102003](https://arxiv.org/abs/10.1103/PhysRevLett.111.102003).

Phys.Rev.Lett. 111 (2013) 102003.

39) First observation of the decay $B_{c1}^+ \rightarrow J/\psi K^+$

By LHCb Collaboration (R. Aaij et al.).

arXiv:1306.6723 [hep-ex].

[10.1007/JHEP09\(2013\)075](https://arxiv.org/abs/10.1007/JHEP09(2013)075).

JHEP 1309 (2013) 075.

40) Improved Measurement of Absolute Hadronic Branching Fractions of the D_s^+ Meson

By CLEO Collaboration (P.U.E. Onyisi et al.).

arXiv:1306.5363 [hep-ex].

[10.1103/PhysRevD.88.032009](https://arxiv.org/abs/10.1103/PhysRevD.88.032009).

Phys.Rev. D88 (2013) 032009.

41) Searches for $B^0_{(s)} \rightarrow J/\psi p\bar{p}$ and $B^+ \rightarrow J/\psi p\bar{p}\pi^+$ decays

By LHCb Collaboration (R. Aaij et al.).

arXiv:1306.4489 [hep-ex].

[10.1007/JHEP09\(2013\)006](https://arxiv.org/abs/10.1007/JHEP09(2013)006).

JHEP 1309 (2013) 006.

42) Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7\text{TeV}$

By LHCb Collaboration (R. Aaij et al.).

arXiv:1306.3663 [hep-ex].

[10.1007/JHEP08\(2013\)117](https://arxiv.org/abs/10.1007/JHEP08(2013)117).

JHEP 1308 (2013) 117.

43) Measurement of the differential branching fraction of the decay

$\Lambda_b^0 \rightarrow \Lambda \mu^+ \mu^-$

By LHCb Collaboration (R. Aaij et al.).

arXiv:1306.2577 [hep-ex].

[10.1016/j.physletb.2013.06.060](https://arxiv.org/abs/10.1016/j.physletb.2013.06.060).

Phys.Lett. B725 (2013) 25.

- 44) First observation of the decay $B_s^0 \rightarrow \bar{\phi} \bar{K}^{*0}$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1306.2239 [hep-ex].
[10.1007/JHEP11\(2013\)092](https://arxiv.org/abs/10.1007/JHEP11(2013)092).
 JHEP 1311 (2013) 092.
- 45) 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
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1306.1246 [hep-ex].
[10.1103/PhysRevLett.111.101801](https://arxiv.org/abs/10.1103/PhysRevLett.111.101801).
 Phys.Rev.Lett. 111 (2013) 101801.
- 46) Observation of $B^0 \rightarrow \chi_{c1} \phi$ decay and study of $B^0 \rightarrow \chi_{c1,2} K^{*0}$ decays
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1305.6511 [hep-ex].
[10.1016/j.nuclphysb.2013.06.005](https://arxiv.org/abs/10.1016/j.nuclphysb.2013.06.005).
 Nucl.Phys. B874 (2013) 663-678.
- 47) Search for the rare decay $D^0 \rightarrow \mu^+ \mu^-$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1305.5059 [hep-ex].
[10.1016/j.physletb.2013.06.037](https://arxiv.org/abs/10.1016/j.physletb.2013.06.037).
 Phys.Lett. B725 (2013) 15-24.
- 48) Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \phi \mu^+ \mu^-$
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1305.2168 [hep-ex].
[10.1007/JHEP07\(2013\)084](https://arxiv.org/abs/10.1007/JHEP07(2013)084).
 JHEP 1307 (2013) 084.
- 49) Measurement of the CKM angle γ from a combination of $B^{\pm} \rightarrow D h^{\pm}$ analyses
 By LHCb Collaboration (R Aaij et al.).
 arXiv:1305.2050 [hep-ex].
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