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Information related to the B --> hh Road Map document

Road Map document

The Road Map document can be found here [↗](#).

Present experimental status

- B. Aubert et al. [BABAR Collaboration], arXiv:0807.4226 [hep-ex].
- [Belle Collaboration], Nature 452 (2008) 332.
- K. Abe et al. [Belle Collaboration], Phys. Rev. Lett. 99 (2007) 121601 [arXiv:hep-ex/0609015].
- H. Ishino et al. [Belle Collaboration], Phys. Rev. Lett. 98 (2007) 211801 [arXiv:hep-ex/0608035].
- [CDF Collaboration], CDF Public Note 8579.
- A. Abulencia et al. [CDF Collaboration], Phys. Rev. Lett. 97 (2006) 211802 [arXiv:hep-ex/0607021].
- [CDF Collaboration], CDF Public Note 9092.
- B. Aubert et al. [BaBar Collaboration], Phys. Rev. D 69 (2004) 091503 [arXiv:hep-ex/0403003].
- Y. T. Tsai et al. [BELLE Collaboration], Phys. Rev. D 75 (2007) 111101 [arXiv:hep-ex/0703048].
- E. Barberio et al. [Heavy Flavor Averaging Group], Results on Time-Dependent CP Violation, and Measurements Related to the Angles of the Unitarity Triangle: Summer 2008, <http://www.slac.stanford.edu/xorg/hfag/triangle/summer2008/> [↗](#).
- E. Barberio et al. [Heavy Flavor Averaging Group], CP Asymmetries in Charmless B Decays: ICHEP 2008 update, <http://www.slac.stanford.edu/xorg/hfag/rare/ichep08/acp/> [↗](#).
- B. Aubert et al. [BABAR Collaboration], Phys. Rev. D 75 (2007) 012008 [arXiv:hep-ex/0608003].
- E. Barberio et al. [Heavy Flavor Averaging Group], Branching Ratios of Charmless B Decays: ICHEP 2008 update, <http://www.slac.stanford.edu/xorg/hfag/rare/ichep08/charmless/> [↗](#).
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Some theory papers

- R. Fleischer, Phys. Lett. B 459 (1999) 306 [arXiv:hep-ph/9903456].
- R. Fleischer, Eur. Phys. J. C 52 (2007) 267 [arXiv:0705.1121 [hep-ph]].
- M. Ciuchini, E. Franco, G. Martinelli, M. Pierini and L. Silvestrini, Phys. Lett. B 674 (2009) 197 [arXiv:0811.0341 [hep-ph]].
- M. Gronau, J.L. Rosner and D. London, Phys. Rev. Lett. 73 (1994) 21.
- M. Gronau, O.F. Hernandez, D. London and J.L. Rosner, Phys. Rev. D50 (1994) 4529.
- M. Gronau and J.L. Rosner, Phys. Lett. B482 (2000) 7.
- R. Fleischer, S. Recksiegel and F. Schwab, Eur. Phys. J. C (2007) [hep-ph/0702275].
- M. Beneke and M. Neubert, Nucl. Phys. B675 (2003) 333.
- A.R. Williamson and J. Zupan, Phys. Rev. D74 (2006) 014003 [Erratum-ibid. D74 (2006) 03901].
- A. Khodjamirian, T. Mannel and M. Melcher, Phys. Rev. D70 (2004) 094002.
- R. Fleischer, Eur. Phys. J. C16 (2000) 87.
- R. Fleischer and J. Matias, Phys. Rev. D66 (2002) 054009.
- A.J. Buras, R. Fleischer, S. Recksiegel and F. Schwab, Phys. Rev. Lett. 92 (2004) 101804; Nucl. Phys. B697 (2004) 133.

LHCb Talks (in reverse chronological order for each topic)

General presentations

- B->hh road map presentation, V. Vagnoni [↗](#)
- CP asymmetries in B -> hh, V. Vagnoni [↗](#)
- Steps towards CP analyses with B->hh, V. Vagnoni [↗](#)
- CP WG: recent highlights and plans for B->hh, V. Vagnoni [↗](#)
- Progress in B->hh studies, V. Vagnoni [↗](#)
- Report from B->hh subgroup, V. Vagnoni [↗](#)

Offline selection studies

- B->hh offline selection, A. Carbone [↗](#)
- B->hh selection status, A. Carbone [↗](#)
- Update on B->hh selection, A. Carbone [↗](#)
- Status of DC06 selection studies, A. Carbone [↗](#)
- Status of DC06 B->hh background studies, A. Carbone [↗](#)
- Status of DC06 B->hh selection studies, A. Carbone [↗](#)
- B->hh selection efficiencies with DC06 data, A. Carbone [↗](#)

Online selection studies

- B->hh online selection, A. Carbone [↗](#)
- B->hh trigger status, A. Carbone [↗](#)
- B->hh and HLT2, A. Carbone [↗](#)
- First look at trigger with B->hh decays, E. Rodrigues [↗](#)
- Trigger issues for B->hh decays, E. Rodrigues [↗](#)

Mass line shape

- B->hh invariant mass parameterization, V. Vagnoni [↗](#)

Particle Identification

- PID observable for CP fits in the road map note, V. Vagnoni and S. Perazzini [↗](#)
- Update on B->hh PID calibration and reweighting, R. Muresan [↗](#)
- Status of PID calibration with D* decays, R. Muresan [↗](#)
- Progresses with RICH PID calibration using D*, R. Muresan [↗](#)
- PID calibration with D* samples in DC06, R. Muresan [↗](#)

Proper time measurement

- Update on proper time resolution extraction from B->hh data, L. Carson [↗](#)
- Proper Time Resolution road map contribution, L. Carson [↗](#)
- Propertime resolution studies at Glasgow, L. Carson [↗](#)
- B->hh propertime studies, S. Vecchi [↗](#)
- B->hh proper time studies with DC06 data, S. Vecchi [↗](#)
- Studies on the Bs Proper Time systematics, S. Vecchi [↗](#)

Lifetime studies

- Update on unbiased Bs->KK lifetime measurement, U. Kerzel [↗](#)
- Lifetime fitting in B->hh, M. Gersabeck [↗](#)
- MC-free lifetime fitting, M. Gersabeck [↗](#)

- Ideas for PID-based Bs->KK trigger, U. Kerzel [↗](#)
- Update on B_s-->KK lifetime, U. Kerzel [↗](#)
- Status of B->hh lifetime studies in Cambridge, U. Kerzel [↗](#)
- B->hh, lifetime issues, M. Gersabeck [↗](#)

Misalignments

- B->hh misalignment studies, M. Gersabeck, E. Rodrigues and J. Nardulli [↗](#)
- Progresses of misalignment studies with B->hh channels, M. Gersabeck, J. Nardulli and E. Rodrigues [↗](#)
- Plans for misalignment studies with B->hh decays, J. Nardulli [↗](#)

Tagging

- B->hh Flavour Tagging strategy and performance, S. Perazzini and V. Vagnoni [↗](#)
- Study of B->hh mistag fractions and CP fits, A. Sarti [↗](#)

CP sensitivity

- Global fit to the full Monte Carlo sample, V. Vagnoni, A. Sarti and A. Carbone [↗](#)
- B->hh CP fits, V. Vagnoni, A. Sarti and A. Carbone [↗](#)
- Update on the B->hh global fit, A. Sarti [↗](#)
- Towards a global B->hh CP fit, A. Sarti and V. Vagnoni [↗](#)
- B->hh CP fits on DC06 data samples: first studies, S. Vecchi [↗](#)
- Simultaneous Fit, A. Sarti [↗](#)

B-->ppbar

- B to p pbar road map contribution, L. Carson [↗](#)
- Offline selection for the rare decays B-->ppbar, L. Carson [↗](#)
- First studies on rare B->hh decays - report primarily on B->p pbar, E. Rodrigues and C. Parkes [↗](#)
- Rare B->hh decays, E. Rodrigues [↗](#)

-- VincenzoVagnoni - 11 May 2009

This topic: LHCb > NewCpLoopRoadmap
Topic revision: r3 - 2009-05-12 - VincenzoVagnoni



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