

## BABAR group publications (January 2015-June 2017)

- [1] J. P. Lees et al. (BaBar Collaboration). “Dalitz plot analyses of  $J/\psi \rightarrow \pi^+\pi^-\pi^0$ ,  $J/\psi \rightarrow K^+K^-\pi^0$ , and  $J/\psi \rightarrow K_S^0K^\pm\pi^\mp$  produced via  $e^+e^-$  annihilation with initial-state radiation”. *Phys. Rev. D* 95.7 (2017), p. 072007. arXiv: [1702.01551 \[hep-ex\]](#).
- [2] J. P. Lees et al. (BaBar Collaboration). “Measurement of the  $e^+e^- \rightarrow K_S^0K^\pm\pi^\mp\pi^0$  and  $K_S^0K^\pm\pi^\mp\eta$  cross sections using initial-state radiation”. *Phys. Rev. D* 95.9 (2017), p. 092005. arXiv: [1704.05009 \[hep-ex\]](#).
- [3] J. P. Lees et al. (BaBar Collaboration). “Measurement of the inclusive electron spectrum from B meson decays and determination of  $-\text{Vub}$ ”. *Phys. Rev. D* 95.7 (2017), p. 072001. arXiv: [1611.05624 \[hep-ex\]](#).
- [4] J. P. Lees et al. (BaBar Collaboration). “Search for  $B^+ \rightarrow K^+\tau^+\tau^-$  at the BaBar experiment”. *Phys. Rev. Lett.* 118.3 (2017), p. 031802. arXiv: [1605.09637 \[hep-ex\]](#).
- [5] P. del Amo Sanchez et al. (BaBar Collaboration). “Time-dependent analysis of  $B^0 \rightarrow K_S^0\pi^-\pi^+\gamma$  decays and studies of the  $K^+\pi^-\pi^+$  system in  $B^+ \rightarrow K^+\pi^-\pi^+\gamma$  decays”. *Phys. Rev. D* 93.5 (2016), p. 052013. arXiv: [1512.03579 \[hep-ex\]](#).
- [6] J. P. Lees et al. (BaBar Collaboration). “Measurement of angular asymmetries in the decays  $B \rightarrow K^*\ell^+\ell^-$ ”. *Phys. Rev. D* 93.5 (2016), p. 052015. arXiv: [1508.07960 \[hep-ex\]](#).
- [7] J. P. Lees et al. (BaBar Collaboration). “Measurement of the  $B^0 \rightarrow D^* - \pi^+\pi^-\pi^+$  branching fraction”. *Phys. Rev. D* 94.9 (2016), p. 091101. arXiv: [1609.06802 \[hep-ex\]](#).
- [8] J. P. Lees et al. (BaBar Collaboration). “Measurement of the  $I=1/2$   $K\pi$   $\mathcal{S}$ -wave amplitude from Dalitz plot analyses of  $\eta_c \rightarrow K\bar{K}\pi$  in two-photon interactions”. *Phys. Rev. D* 93 (2016), p. 012005. arXiv: [1511.02310 \[hep-ex\]](#).
- [9] J. P. Lees et al. (BaBar Collaboration). “Measurement of the neutral  $D$  meson mixing parameters in a time-dependent amplitude analysis of the  $D^0 \rightarrow \pi^+\pi^-\pi^0$  decay”. *Phys. Rev. D* 93.11 (2016), p. 112014. arXiv: [1604.00857 \[hep-ex\]](#).
- [10] J. P. Lees et al. (BaBar Collaboration). “Observation of  $\bar{B} \rightarrow D^{(*)}\pi^+\pi^-\ell^-\bar{\nu}$  decays in  $e^+e^-$  collisions at the  $\Upsilon(4S)$  resonance”. *Phys. Rev. Lett.* 116.4 (2016), p. 041801. arXiv: [1507.08303 \[hep-ex\]](#).
- [11] J. P. Lees et al. (BaBar Collaboration). “Search for a muonic dark force at BABAR”. *Phys. Rev. D* 94.1 (2016), p. 011102. arXiv: [1606.03501 \[hep-ex\]](#).
- [12] J. P. Lees et al. (BaBar Collaboration). “Search for mixing-induced CP violation using partial reconstruction of  $\bar{B}^0 \rightarrow D^{*+}X\ell^-\bar{\nu}_\ell$  and kaon tagging”. *Phys. Rev. D* 93.3 (2016), p. 032001. arXiv: [1506.00234 \[hep-ex\]](#).
- [13] J. P. Lees et al. (BaBar Collaboration). “Tests of CPT symmetry in  $B^0 - \bar{B}^0$  mixing and in  $B^0 \rightarrow c\bar{c}K^0$  decays”. *Phys. Rev. D* 94.1 (2016), p. 011101. arXiv: [1605.04545 \[hep-ex\]](#).
- [14] A. Abdesselam et al. (Belle, BaBar Collaboration). “First Observation of CP Violation in  $\bar{B}^0 \rightarrow D_{\text{CP}}^{(*)}h^0$  Decays by a Combined Time-Dependent Analysis of BABAR and Belle Data”. *Phys. Rev. Lett.* 115.12 (2015), p. 121604. arXiv: [1505.04147 \[hep-ex\]](#).
- [15] J. P. Lees et al. (BaBar Collaboration). “Collins asymmetries in inclusive charged  $KK$  and  $K\pi$  pairs produced in  $e^+e^-$  annihilation”. *Phys. Rev. D* 92.11 (2015), p. 111101. arXiv: [1506.05864 \[hep-ex\]](#).
- [16] J. P. Lees et al. (BaBar Collaboration). “Dalitz plot analyses of  $B^0 \rightarrow D^-D^0K^+$  and  $B^+ \rightarrow \bar{D}^0D^0K^+$  decays”. *Phys. Rev. D* 91 (5 Mar. 2015), p. 052002. URL: <https://link.aps.org/doi/10.1103/PhysRevD.91.052002>.
- [17] J. P. Lees et al. (BaBar Collaboration). “Measurement of initial-state-final-state radiation interference in the processes  $e^+e^- \rightarrow \mu^+\mu^-\gamma$  and  $e^+e^- \rightarrow \pi^+\pi^-\gamma$ ”. *Phys. Rev. D* 92.7 (2015), p. 072015. arXiv: [1508.04008 \[hep-ex\]](#).
- [18] J. P. Lees et al. (BaBar Collaboration). “Measurement of the branching fractions of the radiative leptonic  $\tau$  decays  $\tau \rightarrow e\gamma\nu\bar{\nu}$  and  $\tau \rightarrow \mu\gamma\nu\bar{\nu}$  at BABAR”. *Phys. Rev. D* 91 (2015), p. 051103. arXiv: [1502.01784 \[hep-ex\]](#).

- [19] J. P. Lees et al. (BaBar Collaboration). “Measurement of the  $D^0 \rightarrow \pi^- e^+ \nu_e$  differential decay branching fraction as a function of  $q^2$  and study of form factor parameterizations”. *Phys. Rev. D* 91.5 (2015), p. 052022. arXiv: [1412.5502 \[hep-ex\]](#).
- [20] J. P. Lees et al. (BaBar Collaboration). “Observation of the baryonic decay  $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{p} K^- K^+$ ”. *Phys. Rev. D* 91.3 (2015), p. 031102. arXiv: [1410.3644 \[hep-ex\]](#).
- [21] J. P. Lees et al. (BaBar Collaboration). “Search for a light Higgs resonance in radiative decays of the Y(1S) with a charm tag”. *Phys. Rev. D* 91.7 (2015), p. 071102. arXiv: [1502.06019 \[hep-ex\]](#).
- [22] J. P. Lees et al. (BaBar Collaboration). “Search for Long-Lived Particles in  $e^+e^-$  Collisions”. *Phys. Rev. Lett.* 114.17 (2015), p. 171801. arXiv: [1502.02580 \[hep-ex\]](#).
- [23] J. P. Lees et al. (BaBar Collaboration). “Study of  $B^{\pm,0} \rightarrow J/\psi K^+ K^- K^{\pm,0}$  and search for  $B^0 \rightarrow J/\psi \phi$  at BABAR”. *Phys. Rev. D* 91.1 (2015), p. 012003. arXiv: [1407.7244 \[hep-ex\]](#).
- [24] J. P. Lees et al. (BaBar Collaboration). “Study of  $CP$  Asymmetry in  $B^0 - \bar{B}^0$  Mixing with Inclusive Dilepton Events”. *Phys. Rev. Lett.* 114.8 (2015), p. 081801. arXiv: [1411.1842 \[hep-ex\]](#).
- [25] J. P. Lees et al. (BaBar Collaboration). “Study of the  $e^+e^- \rightarrow K^+K^-$  reaction in the energy range from 2.6 to 8.0 GeV”. *Phys. Rev. D* 92.7 (2015), p. 072008. arXiv: [1507.04638 \[hep-ex\]](#).
- [26] P. del Amo Sanchez et al. (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 (2010). [Erratum: *Phys. Rev. D* 91, no. 1, 019901 (2015)], p. 091103. arXiv: [1008.4080 \[hep-ex\]](#).