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Title:	Measurement of branching fraction and direct CP asymmetry in charmless B+ â†'K+K-Ï€+ decays at Belle
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)
Keywords:	charmless hadronic $K+K-\pi+.$ CP asymmetry
Issue Date:	2017
Publisher:	American Physical Society
Citation:	Physical Review D, 96 (3)
Abstract:	We report a study of the charmless hadronic decay of the charged B meson to the three-body final state K+K-π+. The results are based on a data sample that contains 772×106 BB¯ pairs collected at the Y(4S) resonance with the Belle detector at the KEKB asymmetric-energy e+e-collider. The measured inclusive branching fraction and direct CP asymmetry are (5.38±0.40±0.35)×10-6 and -0.170±0.073±0.017, respectively, where the first uncertainties are statistical and the second are systematic. The K+K- invariant mass distribution of the signal candidates shows an excess in the region below 1.5 GeV/c2, which is consistent with the previous studies from BABAR and LHCb. In addition, strong evidence of a large direct CP asymmetry is found in the low K+K- invariant-mass region.
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