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Title:	Evidence for Isospin Violation and Measurement of CP Asymmetries in B â†'kâˆ— (892)Î³
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)
Keywords:	isospin violation CP asymmetries KEKB
Issue Date:	2017
Publisher:	APS
Citation:	Physical Review Letters, 119 (19)
Abstract:	We report the first evidence for isospin violation in B→K*γ and the first measurement of the difference of CP asymmetries between B+→K*+γ and B0→K*0γ. This analysis is based on the data sample containing 772×106BB¯ pairs that was collected with the Belle detector at the KEKB energy-asymmetric e+e- collider. We find evidence for the isospin violation with a significance of 3.1σ, Δ0+=[+6.2±1.5(stat)±0.6(syst)±1.2(f+-/f00)]%, where the third uncertainty is due to the uncertainty on the fraction of B+B- to B0B¯0 production in Υ(4S) decays. The measured value is consistent with predictions of the standard model. The result for the difference of CP asymmetries is ΔACP=[+2.4±2.8(stat)±0.5(syst)]%, consistent with zero. The measured branching fractions and CP asymmetries for charged and neutral B meson decays are the most precise to date. We also calculate the ratio of branching fractions of B0→K*0γ to Bs0→ϕγ.
Description:	Only IISERM authors are available in the record.
URI:	https://inspirehep.net/literature/1608384 (https://inspirehep.net/literature/1608384) http://hdl.handle.net/123456789/1763 (http://hdl.handle.net/123456789/1763)
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