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Title:	Measurement of branching fraction and search for CP violation in B $ ightarrow \phi \phi K$.				
Authors:	rdwaj, Vishal (/jspui/browse?type=author&value=Bhardwaj%2C+Vishal)				
Keywords:	Flavor changing				
	Rare decays				
	Feynman diagrams				
	Lepton-lepton interactions				
	Hadronic decays				
	neutral currents				
Issue Date:	2021				
Publisher:	American Physical Society				
Citation:	Physical Review D, 103(5).				
Abstract:	We report the measurement of branching fractions and CP-violation asymmetries in B $\rightarrow \varphi\varphi K$ decays based on a 711 fb-1 data sample containing 772 × 106 BB $^-$ events. The data were recorded at the Yõ4SÞ resonance with the Belle detector at the KEKB asymmetric-energy eþecollider. For Bþ $\rightarrow \varphi\varphi K$ þ, the branching fraction and CP-violation asymmetry measured below the ηc threshold (m $\varphi \varphi < 2.85$ GeV=c2) are $1/3.43$ $\varphi = 0.46$ $\varphi = 0.46$ 0 stath 0.22 $\varphi = 0.20$ 0.11 stath 0.01 systh, respectively. Similarly, the branching fraction obtained for B0 $\rightarrow \varphi \varphi K$ 0 below the $\varphi = 0.20$ 0.11 systh of threshold is $1/3.02$ $\varphi = 0.66$ 0 stath 0.20 systh $10-6$ 0. We also measure the CP-violation asymmetry for B $\varphi = 0.00$ 0 within the $\varphi = 0.00$ 0 (m $\varphi = 0.00$ 0 GeV=c2) to be $\varphi = 0.00$ 0.12 stath 0.01 systh.				
Description:	Only IISER Mohali authors are available in the record.				
URI:	https://doi.org/10.1103/PhysRevD.103.052013 (https://doi.org/10.1103/PhysRevD.103.052013) http://hdl.handle.net/123456789/5188 (http://hdl.handle.net/123456789/5188)				
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