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Title:	Measurement of time-dependent CP violation in B0→K0Sπ0π0 decays					
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)					
Keywords:	Particle Phenomena Particle mixing & oscillations Quark mixing					
Issue Date:	2019					
Publisher:	American Physical Society					
Citation:	Physical Review D,99(1)					
Abstract:	We report a measurement of time-dependent CP violation in $B0 \rightarrow K0S\pi0\pi0$ decays using a data sample of 772×106 B B pairs collected by the Belle experiment running at the Y(4S) resonance at the KEKB e+e- collider. This decay proceeds mainly via a b $\rightarrow$ sd d "penguin" amplitude. The results are sin2 $\phi$ eff1=0.92+0.27-0.31 (stat.) $\pm$ 0.11 (syst.) and A=0.28 $\pm$ 0.21 (stat.) $\pm$ 0.04 (syst.), which are the most precise measurements of CP violation in this decay mode to date. The value for the CP-violating parameter sin2 $\phi$ eff1 is consistent with that obtained using decay modes proceeding via a b $\rightarrow$ c cs "tree" amplitude.					
Description:	Only IISERM authors are available in the record.					
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