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Title:	Measurement of time-dependent C P violation parameters in $B^0 \rightarrow K^0 S K^0 S$ decays at Belle
Authors:	Bhardwaj, Vishal (/jspui/browse?type=author&value=Bhardwaj%2C+Vishal) Patra, Sourav (/jspui/browse?type=author&value=Patra%2C+Sourav)
Keywords:	Lepton colliders Particle mixing & oscillations Particle decays
Issue Date:	2021
Publisher:	American Physical Society
Citation:	Physical Review D, 103(3).
Abstract:	We measure the time-dependent CP violation parameters in $B^0 \rightarrow K^0 S K^0 S$ decays using $772 \times 10^6 B\bar{B}^0$ pairs collected at the $\Upsilon(4S)$ resonance with the Belle detector at the KEKB asymmetric-energy e^+e^- collider. The obtained mixing-induced and direct CP asymmetries are -0.71 ± 0.23 (stat) ± 0.05 (syst) and 0.12 ± 0.16 (stat) ± 0.05 (syst), respectively. These values are consistent with the Standard Model predictions. The significance of CP violation differs from zero by 2.5 standard deviations.
Description:	Only IISERM authors are available in the record.
URI:	https://doi.org/10.1103/PhysRevD.103.032003 (https://doi.org/10.1103/PhysRevD.103.032003) http://hdl.handle.net/123456789/4630 (http://hdl.handle.net/123456789/4630)
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