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Title:	First measurement of T -odd moments in $D^0 \rightarrow K^0 \pi^+ \pi^-$ decays
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)
Keywords:	T -odd $D^0 \rightarrow K^0 \pi^+ \pi^-$ KEKB
Issue Date:	2017
Publisher:	APS
Citation:	Physical Review D,95(9).
Abstract:	We report the first measurement of the T-odd moments in the decay $D^0 \rightarrow K^0 \pi^+ \pi^-$ from a data sample corresponding to an integrated luminosity of $966 \text{ fb}^{-1}$ collected by the Belle experiment at the KEKB asymmetric-energy $e^+e^-$ collider. From these moments we determine the CP-violation-sensitive asymmetry $a_{T\text{-oddCP}} = [-0.28 \pm 1.38(\text{stat.}) + 0.23 - 0.76(\text{syst.})] \times 10^{-3}$ , which is consistent with no CP violation. In addition, we perform $a_{T\text{-oddCP}}$ measurements in different regions of the $D^0 \rightarrow K^0 \pi^+ \pi^-$ phase space; these are also consistent with no CP violation.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://journals.aps.org/prd/abstract/10.1103/PhysRevD.95.091101">https://journals.aps.org/prd/abstract/10.1103/PhysRevD.95.091101</a> ( <a href="https://journals.aps.org/prd/abstract/10.1103/PhysRevD.95.091101">https://journals.aps.org/prd/abstract/10.1103/PhysRevD.95.091101</a> ) <a href="http://hdl.handle.net/123456789/2567">http://hdl.handle.net/123456789/2567</a> ( <a href="http://hdl.handle.net/123456789/2567">http://hdl.handle.net/123456789/2567</a> )
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