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Title:	Search for the B \rightarrow Y(4260)K, Y(4260) \rightarrow J/ $\psi\pi$ + π - decays
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.) Patra, S. (/jspui/browse?type=author&value=Patra%2C+S.)
Keywords:	Asymmetric-energy KEKB Respectively
Issue Date:	2019
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Citation:	Physical Review D, 99(7).
Abstract:	We report the results of a search for the $B \rightarrow Y(4260)K$, $Y(4260) \rightarrow J/\psi \pi + \pi -$ decays. This study is based on a data sample corresponding to an integrated luminosity of 711 fb-1, collected at the Y(4S) resonance with the Belle detector at the KEKB asymmetric-energy e+e- collider. We investigate the $J/\psi \pi + \pi -$ invariant mass distribution in the range 4.0 to 4.6 GeV/c2 using both $B+\rightarrow J/\psi \pi + \pi - K+$ and $BO\rightarrow J/\psi \pi + \pi - KOS$ decays. We find excesses of events above the background levels, with significances of 2.1 and 0.9 standard deviations for charged and neutra $B\rightarrow Y(4260)K$ decays, respectively, taking into account the systematic uncertainties. These correspond to upper limits on the product of branching fractions, $B(B+\rightarrow Y(4260)K+)\times B(Y(4260)\rightarrow J/\psi \pi + \pi -)<1.4\times 10-5$ and $B(BO\rightarrow Y(4260)K0)\times B(Y(4260)\rightarrow J/\psi \pi + \pi -)<1.7\times 10-5$ at the 90% confidence level.
Description:	Only IISERM authors are available in the record.
URI:	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.071102 (https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.071102) http://hdl.handle.net/123456789/2151 (http://hdl.handle.net/123456789/2151)
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