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Title:	Search for $Y(4260)$ in $B \rightarrow Y(4260) K$ decay mode at belle.
Authors:	Vishal, Bhardwaj (/jspui/browse?type=author&value=Vishal%2C+Bhardwaj)
Keywords:	decay mode at belle.
Issue Date:	2021
Publisher:	Springer Nature
Citation:	Springer Proceedings in Physics, 261, 117-122.
Abstract:	<p>$Y(4260)$ is an exotic charmonium-like state with 4230 ± 8 MeV/c^2 mass and 55 ± 19 MeV width. The $Y(4260)$'s decay to $J/\psi \pi \pi \pi$ suggests, it to be a charmonium (cc) meson. But its mass is not consistent with any of $1^{--} cc$ state. Several models have been proposed to explain the nature of $Y(4260)$ including cc-g hybrid model, tetraquark, $D1D$, $D0D^*$ molecule, $J/\psi f_0(980)$ molecule, and so on. This state is so interesting that a charged state $Z_c(3900)$ is observed in its decay mode and $Z_c(3900)$ is a tetraquark state. Some recent studies suggest $Y(4260)$ be an admixture of tetraquark and charmonium state. It has been suggested that the structure of $Y(4260)$ can be estimated if one measured branching fraction of $B \rightarrow Y(4260)K$. Till now, this state has been only produced by ISR or e^+e^- annihilation. We search for $B \rightarrow Y(4260)K$, where $Y(4260) \rightarrow J/\psi \pi \pi \pi$ decay mode using the full $Y(4S)$ data collected by the Belle detector at the asymmetric KEKB e^+e^- collider.</p>
Description:	http://210.212.36.82:8080/jspui/handle/123456789/4894
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