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Title: Study of X(3872) and X(3915) Using Belle Detector Authors: Thampi, Ashish (/jspui/browse?type=author&value=Thampi%2C+Ashish) Keywords: **Physics** X(3872) X(3915) Mesons Charmonium 17-Jul-2017 Issue Date: Publisher: **IISER-M** Abstract: Last decade has seen the discovery of many exotic charmonium-like states. X(3872) is the poster boy of such exotic states. The nature of X(3872) is still unknown. Precise measurement of $R3\pi/2\pi$ = B(X(3872) \rightarrow J/ π + π - π 0)/ B(X(3872) \rightarrow J= π + π -) is crucial to understand the nature of X(3872) state. We performed Monte Carlo study for B+- \rightarrow (J= !)K decay at Belle detector. We estimated the reconstruction efficiency for B \rightarrow X(3872)K and B \rightarrow X(3915)K decay modes. Based on that we expect 35 (170) signal events for $X(3872) \rightarrow J= ! (X(3915) \rightarrow J= !)$ from the (4S) data collected by Belle detector at KEKB asymmetric electron-positron collider. URI: http://hdl.handle.net/123456789/819 (http://hdl.handle.net/123456789/819) Appears in MS-12 (/jspui/handle/123456789/723) Collections:

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