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Title:	Study of B $ ightarrow$ J/ $\psi\omega$ K at Belle			
Authors:	Maiti, Rajesh Kumar (/jspui/browse?type=author&value=Maiti%2C+Rajesh+Kumar)			
Issue Date:	24-Apr-2019			
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Abstract:	Motive of this thesis is to search for B \rightarrow XK decay mode, where X may be X(3872) and X(3915) and goes to J/ $\psi\omega$, using the data sample of 772 × 106 BB $^-$ pair. We performed signal Monte Carlo (MC) study for B \rightarrow J/ $\psi\omega$ K decay mode and estimated the reconstruction efficiency for B \rightarrow X(3872) K to be is about 9±0.1% and for B \rightarrow X(3915) K is about 8.6±0.1%. Based on B \rightarrow J/ ψ X Inclusive MC study we expect 51±3 and 209 ±12 events for B \rightarrow X(3872)K and B \rightarrow X(3915)K decay mode and the corresponding branching fraction is 7.02±0.4(stat)×10–6 and 3.02±0.2(stat) ×10–5 , respectively. The used data is collected by belle detector at KEK-B asymmetric e +e – collider.			
URI:	http://hdl.handle.net/123456789/3653 (http://hdl.handle.net/123456789/3653)			
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