Title:	Study of B → J/ψωK at Belle
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Abstract:	Motive of this thesis is to search for B → XK decay mode, where X may be X(3872) and X(3915) and goes to J/ψω, using the data sample of 772 × 106 BB^{-} pair. We performed signal Monte Carlo (MC) study for B → J/ψω K decay mode and estimated the reconstruction efficiency for B → X(3872) K to be is about 9±0.1% and for B → X(3915) K is about 8.6±0.1%. Based on B → J/ψX Inclusive MC study we expect 51±3 and 209 ±12 events for B → X(3872)K and B → 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.
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