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Study of $B \to chi_{cJ}X$ at Belle

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In spite of the fact that the two-body B decays into χ_{c2} such as $B \to \chi_{c2}K^{(*)}$ are suppressed by the QCD factorization effect, the inclusive $B \to \chi_{c2}X$ branching fraction amounts to one third of the non-suppressed $B \to \chi_{c1}X$ decays because of the decay modes to the multi-body final states. Using a large statistics $\Upsilon(4S)$ data sample corresponding to 772 million B meson pairs accumulated by the Belle detector at the KEKB e^+e^- collider, precise measurements of inclusive $B \to \chi_{c1}$ and χ_{c2} branching fractions are carried out. The multi-body final states such as $\chi_{cJ}K\pi$, $\chi_{cJ}K\pi\pi$ and so on are also investigated to look for new charmonium-like resonance.

Primary author: BHARDWAJ, Vishal (University of South Carolina)

Presenter: BHARDWAJ, Vishal (University of South Carolina)

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