

## Hadronic $b \rightarrow c$ decays at Belle

Saturday, July 18, 2009 11:00 AM (15 minutes)

Study of  $B \rightarrow D_s^* h$  decays

We report a measurement of the branching fractions for  $B^0 \rightarrow D_s^* h$  decays using a large sample of  $B\bar{B}$  decays collected with the Belle detector at the KEKB asymmetric energy  $e^+e^-$  collider.

Improved measurements of  $B \rightarrow D_s K$  and  $B \rightarrow D_s \pi$  branching fractions

We report improved measurements of the  $B \rightarrow D_s K$  and  $B \rightarrow D_s \pi$  branching fractions. The results are based on a large data sample recorded at the  $\Upsilon(4S)$  resonance by the Belle experiment at the KEKB asymmetric energy  $e^+e^-$  collider.

Measurement of  $B \rightarrow D_s^{(*)} K \pi$  branching fractions

We report a measurement of the exclusive  $B^+$  meson decay to the  $D_s^{(*)-} K^+ \pi^+$  final state using  $657 \times 10^6 B\bar{B}$  pairs collected at the  $\Upsilon(4S)$  resonance with the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider. We use  $D_s^{*-} \rightarrow D_s^- \gamma$  and the  $D_s^- \rightarrow \phi \pi^-$ ,  $\bar{K}^*(892)^0 K^-$  and  $K_S^0 K^-$  decay modes for  $D_s^{(*)}$  reconstruction to measure the following branching fractions:  $calB(B^+ \rightarrow D_s^- K^+ \pi^+)$  and  $calB(B^+ \rightarrow D_s^{*-} K^+ \pi^+)$ .

Measurement of  $B \rightarrow D_s K_s^0 \pi$  and  $B \rightarrow D_s K K$  branching fractions

We report a measurement of the exclusive  $B$  meson decay to the  $D_s K_s^0 \pi$  and  $D_s K K$  final states using  $657 \times 10^6 B\bar{B}$  pairs collected at the  $\Upsilon(4S)$  resonance with the Belle detector at the KEKB asymmetric-energy  $e^+e^-$  collider.

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