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## Measurement of the Branching Fractions of the Decays $B \rightarrow \bar{D}^{(*)} D^{(*)} K$

*Thursday 22 July 2010 15:00 (15 minutes)*

We present a measurement of the branching fractions of the 22 decay channels  $B^0$  and  $B^+$  to  $\bar{D}^{(*)} D^{(*)} K$ , where  $\bar{D}^{(*)}$  and  $D^{(*)}$  are fully reconstructed. The  $B^0$  and  $B^+$  mesons are reconstructed in a sample of hadronic events for all the possible  $\bar{D} D K$  modes, namely  $B^0 \rightarrow \bar{D}^{(*)} D^{(*)} K^+$ ,  $\bar{D}^{(*)} D^{(*)} K^0$ ,  $\bar{D}^{(*)} D^{(*)} K^-$  and  $B^+ \rightarrow \bar{D}^{(*)} D^{(*)} K^0$ ,  $\bar{D}^{(*)} D^{(*)} K^+$ ,  $\bar{D}^{(*)} D^{(*)} K^-$ . The results are based on 423 fb<sup>-1</sup> of data that contained 465 10<sup>6</sup>  $B\bar{B}$  pairs collected at the Upsilon(4S) resonance with the BaBar detector at the PEP-II B factory.

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