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

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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 $B^0 \rightarrow \bar{D}^{(*)-} D^{(*)0} K^+$, $\bar{D}^{(*)-} D^{(*)+} K^0$, $\bar{D}^{(*)0} D^{(*)0} K^0$ and $B^+ \rightarrow \bar{D}^{(*)0} D^{(*)+} K^0$, $\bar{D}^{(*)0} D^{(*)0} K^+$, $\bar{D}^{(*)-} D^{(*)+} K^+$. The results are based on 423 fb⁻¹ of data that contained 465 10⁶ $B\bar{B}$ pairs collected at the Upsilon(4S) resonance with the BaBar detector at the PEP-II B factory.

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