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Measurement of the Branching Fractions of the Decays B –> D(*)bar D(*) K

We present a measurement of the branching fractions of the 22 decay channels B0 and B+ to D(*)bar D(*) K, where D(*)bar and D(*) are fully reconstructed. The B0 and B+ mesons are reconstructed in a sample of hadronic events for all the possible Dbar D K modes, namely B0 –> D(*)- D(*)0 K+, Dˆ(*)- D(*)+ K0, D(*)0bar D(*)0 K0 and B+ –> D(*)0bar D(*)+ K0, D(*)0bar D(*)0 K+, D(*)- D(*)+ K+. The results are based on 423 fbˆ-1 of data that contained 465 million B Bbar pairs collected at the Upsilon(4S) resonance with the BaBar detector at the PEP-II B factory.

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