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First ADS Analysis of B+ –> D0 K Decays in Hadron Collisions

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We report the first measurement of branching fractions and CP-violating asymmetries of doubly-Cabibbo suppressed B+ –> D0 K decays in hadron collisions, using the approach proposed by Atwood, Dunietz, and Soni (ADS) to determine the CKM angle gamma in 7.0 fb-1 of data. The ADS parameters are determined with accuracy comparable with B factory measurements.

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