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Measurement of branching fractions and CP asymmetries in B+->K+pi0, B+->pi+pi0 and B0->pi0pi0 decays with the full BaBar dataset

We present improved measurements of the branching fractions and CP asymmetries in the decays B+->K+pi0, B+->pi+pi0 and B0->pi0pi0. This update is based on 467 Y(4S)->BBbar decays, constituting the complete set of data collected at the Y(4S) resonance by the BaBar experiment at the SLAC PEP-II B-factory.

We determine constraints on the Unitarity Triangle angle alpha from the isospin relation between all B->pipi rates and asymmetries, and we measure the difference in the size of direct CP asymmetries between the decays B+->K+pi0 and B0->K+pi-.

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