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Branching Fractions and Direct CP Asymmetries of Charmless B Decay Modes at the Tevatron

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We present new CDF results on the branching fractions and time-integrated direct CP asymmetries for B0 and B0(s) decay modes into pairs of charmless charged hadrons (pions or kaons). The data-set for this update amounts to fb-1 of p anti-p collisions at a center of mass energy 1.96 TeV. We report the first observation of the B0(s) −> K- pi++ mode and a measurement of its branching fraction an direct CP asymmetry. We also observe for the first time two charmless decays of the Lambda_b-baryon: Lambda0(b) −> p pi+- and Lambda0(b) −> pK-.

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