Measurement of the Branching Fraction of the Decay B0bar -> Lambda_c+ pbar pi0

In a sample of 467 million B Bbar pairs collected with the BaBar detector at the PEP-II collider at SLAC, we observe the decay B0bar -> Lambda_c+ pbar pi0 and measure its branching fraction. An enhancement in the invariant mass of the baryon-antibaryon system at threshold is also observed. No evidence for resonances is found and we calculate a 90% upper limit of the branching fraction BF(B0bar -> Sigma_c+(2455) pbar).

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Track Classification: Heavy Flavor Physics [bottom, charm, tau]