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Observation and study of LambdaC decays of neutral B mesons

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In a sample of 467 million $B\bar{B}$ pairs collected with the BaBar detector at the PEP-II collider at SLAC we have observed the decay $B^0 \rightarrow \Lambda_c^+ \bar{p} \pi^0$ and measured its branching fraction. We determine an upper limit for the branching fraction of the decay $B^0 \rightarrow \Lambda_c^+ (2455) \bar{p}$ and observe an enhancement at the threshold of the invariant mass of the baryon-antibaryon pair.

We also report the observation of the baryonic decay $B^0 \rightarrow \Lambda_c^+ \bar{\Lambda} K^-$.

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