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Charmless two-body B hadron decays at LHCb with 2010 data

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The LHCb experiment is designed to perform flavour physics measurements at the Large Hadron Collider. Using data collected during the 2010 run, we reconstructed a sample of $H_b \rightarrow h+h'$ decays, where H_b can be either a B^0 meson, a B_s^0 meson or a Λ_b baryon, while h and h' stand for π , K or p . Such decays are sensitive probes of the Cabibbo-Kobayashi-Maskawa matrix and have the potential to reveal the presence of New Physics. We present preliminary measurements of the direct CP asymmetries in the $B^0 \rightarrow K^+ \pi^-$ and $B_s^0 \rightarrow \pi^+ K^-$ decays.

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