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Charmless two-dody 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 Hb \rightarrow h+h'- decays, where Hb can be either a B0 meson, a Bs0 meson or a Lambda_b baryon, while h and h? stand for pi, 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 B0 -> K+ pi- and Bs0 -> pi+ K- decays.

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