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CP-violation measurements and prospects with hadronic B decays at LHCb (15'+ 5')

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Using data collected by the LHCb detector during the 2010 run of the LHC we reconstruct the main charmless charged two-body b-hadron decay modes, namely $B^0 \rightarrow \pi^+\pi^-$, $B^0 \rightarrow K^+\pi^-$, $B_s^0 \rightarrow K^+K^-$, $B_s^0 \rightarrow \pi^+K^-$, $\Lambda_{\text{b}} \rightarrow pK^-$ and $\Lambda_{\text{b}} \rightarrow p\pi^-$, and obtain first preliminary measurements of direct CP asymmetries. We also present studies of decays of the type $B \rightarrow DX$, where D is a charmed meson (D^0 , $D^{(*)+}$ or D_s^+), representing the first steps on a programme towards a precision measurement of the angle γ of the CKM Unitarity Triangle. The prospects for CP violation results with hadronic B decays in the 2011 data will be reviewed.

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