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Studies of hadronic B decays with early LHCb data

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Hadronic B decays offer rich opportunities for CP-violation studies. Decays of the type $B \rightarrow DX$, where D represents a charmed meson (D^0 , D^{*+} or D_s), allow for a theoretically clean determination of the CKM triangle angle γ which will provide a Standard Model benchmark of this quantity, robust against new physics effects. Decays into charmless final states, on the other hand, in general receive significant contributions from loop diagrams and are susceptible to the effects of new heavy particles. The trigger schemes of LHCb, and the particle identification provided by its RICH system, give the experiment high sensitivity to these decays. Signals will be shown from the present LHC run, and the measurement programme with the 2010-11 data set will be discussed.

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