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Search for New Physics in CP violating measurements at LHCb

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Precise measurements of CP violating effects in B hadron decays, and the search for CP violation in the charm sector, are an important and sensitive way to search for New Physics and constrain its nature. LHCb has a very wide programme of such studies. These include the measurement of mixing induced CP-violation in the B_s system, a precise determination of the unitarity triangle angle gamma, the characterisation of CP-violation in loop dominated charmless B-decays, and the search for direct and indirect CP-violation in Dˆ0 decays. First studies on some of these studies, and related topics, will be reported, using the 2010 dataset and the first data of the 2011 run.

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