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Search for New Physics in CP-violating Phenomena at LHCb

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LHCb is an experiment optimised to search for New Physics through measurements of the decays of B and D hadrons, in particular those which allow access to CP-violating observables.

The principal goals are studies of B_s mixing-induced CP-violation in channels such as $B_s \rightarrow J/\psi \phi$, a precise measurement of the unitary triangle angle γ , and the search for CP-violation in the charm sector.

Early results will be shown from the 2010 run illustrating the performance of the LHCb detector. These will be used to calculate the expected physics sensitivity in the above topics with the 1 fb⁻¹ dataset that is foreseen to become available before the end of 2011.

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