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## Status of Quark Flavour Physics

*Tuesday 8 April 2014 08:30 (30 minutes)*

With the successful start of the Large Hadron Collider at CERN quark flavour physics has entered a new era. Unprecedented samples of Beauty and charmed mesons and baryons have been collected by the LHCb experiment, which was built for this purpose, ATLAS and CMS also have large flavour physics data samples and the Tevatron and B-factory experiments continue to produce interesting results. Highlights include the measurements of CP violation in Bs mesons and the observation of the very rare decay  $B_s \rightarrow \mu\mu$  as well as precision measurements of Bs and charm mixing and B-hadron lifetimes. These results place strong constraints on the parameter space of many models of physics beyond the Standard Model.

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