



Contribution ID: 89

Type: **Plenary Talk**

## Flavour tagging at LHCb

*Monday 4 June 2012 17:00 (20 minutes)*

The identification of the flavour of reconstructed  $B_d$  and  $B_s$  mesons at production is necessary for the measurements of oscillations and time-dependent CP asymmetries. The calibration and performance of opposite-side flavour tagging algorithms have been developed using simulated events and optimized and calibrated with different flavour specific B decays with  $\sim 1 \text{ fb}^{-1}$  of data collected in pp collisions at  $\sqrt{s}=7 \text{ TeV}$  during the 2011 physics run. Using flavour tagging LHCb has performed, among others, new measurements of  $\Delta m_s$ , of the CP violating  $B_s$  mixing phase  $\phi_s$  and of direct and mixing-induced CP violation in  $B \rightarrow hh$  decays.

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LHCb collaboration

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**Session Classification:** 1E: Physics Objects and/or Breaking News

**Track Classification:** Heavy Flavour Physics