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Flavour tagging at LHCb

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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 and same-side flavour tagging algorithms have been developed using simulated events and 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 Δm_s and of the CP violating B_s mixing phase ϕ_s .

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