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Flavour tagging of b -mesons in pp collisions at LHCb

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Flavour tagging, i.e. the inference of the production flavour of reconstructed b -hadrons, is essential for precision measurements of decay time-dependent CP violation and of mixing parameters in the neutral B meson systems. LHC's pp collisions with their high track multiplicities constitute a challenging environment for flavour tagging and demand for new and improved strategies. We present recent progress and new developments in flavour tagging at the LHCb experiment, which will allow for a further improvement of CP violation measurements in decays of B^0 and B_s^0 mesons.

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