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Muon identification in the LHCb experiment

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Several key measurements of the LHCb experiment rely on the efficient identification of muons. Examples of these are the search for the rare decay $B_s \rightarrow \mu\mu$ and the study of the angular distributions of the decay $B^0 \rightarrow K^* \mu\mu$. A summary of the LHCb muon identification strategy is presented, covering both the baseline method, and also alternative approaches presently under development. First results on muon identification with 2009 data and their comparison to Monte Carlo simulations are also shown.

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