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Search for $B_s \rightarrow \mu^+ \mu^-$ at LHCb

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With the $\sim 1 \text{ fb}^{-1}$ of data expected in the 2011-12 run, LHCb will achieve the world's best sensitivity to the very rare decay $B_s \rightarrow \mu^+ \mu^-$, exploring a regime where many models of New Physics predict a signal, and reaching down towards the Standard Model value for the branching ratio. Results will be presented from data collected in 2010, and from the early months of the 2011 run.

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