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Theory overview of $B_{s,d} \rightarrow \mu^+ \mu^-$ decays

Wednesday 30 April 2014 14:00 (24 minutes)

I will give a theoretical overview of the rare decays $B_{s,d} \rightarrow \mu^+ \mu^-$, which have long been promising probes of New Physics.

Notably there has been important progress in predicting the branching ratios for these decays in the Standard Model, which I will present.

This progress is timely in light of recent experimental measurements of these branching ratios, and I will discuss the implications of these measurements for New Physics.

Furthermore, I will highlight the utility of the time-dependent observables of these decays, particularly the effective lifetime of $B_s \rightarrow \mu^+ \mu^-$, which complement the branching ratio observable in the search for New Physics.

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Session Classification: WG5: Heavy Flavours

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