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Bs,d –> mu mu (theory)

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The decay rate of the rare process B_s-> muˆ+ muˆ- is sensitive to small deviations from the Standard Model flavour structure and is thus used as an indirect probe for new physics. The decay rate has recently been observed by the CMS and LHCb collaboration for the first time and agrees with the SM expectations. In this talk I discuss recent progress in predicting the rate within the SM. I shall mainly focus on the recent two-loop electroweak calculation which helped to remove a 7% uncertainty of the SM prediction.

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