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## Charm and tau loop effects in $B^+ \rightarrow K^+ \mu^- \mu^+$

*Saturday 13 July 2019 09:55 (15 minutes)*

I will present an improved parametrisation of the contribution of  $\bar{c}c$  real intermediate states in the  $B^+ \rightarrow K^+ \mu^- \mu^+$  decay, aimed at improving the description of the dilepton spectrum and, possibly, the extraction of short-distance information from this process. Motivated by B-anomalies, whose combined explanations calls for large NP in the  $b \rightarrow s \tau^- \tau^+$  transition, I will also comment on the possibility of extracting bounds on this contribution from the  $B^+ \rightarrow K^+ \mu^- \mu^+$  dilepton spectrum.

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