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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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