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【403】 Test of lepton flavour universality at LHCb

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The family of decays mediated by $b \rightarrow sl+l^-$ transitions provides a rich laboratory to search for effects of physics beyond the Standard Model. In recent years LHCb has found hints of deviations from theoretical predictions both in the rates and angular distributions of such processes. In addition, hints of lepton flavour non-universality have been seen when comparing $B_{+-} \rightarrow K+\mu+\mu^-$ and $B_{+-} \rightarrow K+e+e^-$ decay rates, with the so-called R_K ratio. Similar observables, such as $R_K = BR(B^0 \rightarrow K^0 \mu^+ \mu^-) / BR(B^0 \rightarrow K^0 e^+ e^-)$, have recently become available and indicate the same anomalous pattern. In this talk, an overview of the latest results and further avenues to test lepton flavour universality will be presented.

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