

## Flavour anomalies: phenomenology and BSM interpretations

*Wednesday 23 May 2018 09:00 (1 hour)*

Several observables in flavour physics deviate from their Standard-Model (SM) expectation. The most prominent ones are related to the decay  $b \rightarrow s\mu^+\mu^-$ , with a combined statistical significance well above 4 standard deviations. Similarly, branching fractions of  $b \rightarrow c\tau\nu$  decays and the direct CP asymmetry in  $K \rightarrow \pi\pi$  decays exceed the SM expectation. I'll discuss theoretical interpretations of these anomalies and highlight which future measurements will help to confirm or refute these anomalies and clarify the underlying theory.

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