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Angular Analysis of the $B \rightarrow K^* \mu \mu$ decay at the LHCb Experiment

Tuesday 9 April 2019 12:00 (15 minutes)

Recent observations of B decays hint at discrepancies with predictions of the otherwise overwhelmingly successful Standard Model of Particle Physics. These observations are extremely intriguing, as they can be interpreted in a coherent way in a number of new physics models by introducing a new vector particle such as a Z' or a leptoquark.

This talk will concentrate on one of these measurements, the angular analysis of the rare decay $B \rightarrow K^* \mu \mu$, performed on data from the LHCb experiment. An introduction to the measurement will be given and the Run 1 results, which have a 3.4 sigma tension with the Standard Model prediction, are presented. An overview of the current status of the update of this analysis with Run 2 data collected at the LHCb detector will be given.

Presenter: KRESS, Felix Johannes (Imperial College (GB))

Session Classification: Parallel stream 4