



Contribution ID: 73

Type: **not specified**

## 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