

Towards a measurement of R_{K^*} at high- q^2 (15'+3')

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In December 2022, LHCb released a new test a lepton flavor universality through the simultaneous measurement of R_K and R_{K^*} in two intervals of the dilepton invariant mass: $q^2 \in [0.1, 1.1] \text{ GeV}^2$ (low- q^2) and $q^2 \in [1.1, 6.0] \text{ GeV}^2$ (central- q^2). This talk presents the analysis of a measurement of R_{K^*} in a region of high values of q^2 , located above the J/ψ and $\psi(2S)$ resonances and never performed by LHCb. In particular, this challenging measurement demands a high control of the pollution of $\psi(2S)$ contributions.

Auteur principal: Dr PIETRZYK, Guillaume (IJCLab)

Orateur: Dr PIETRZYK, Guillaume (IJCLab)