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Measurement of $R(D^*)$ with three-prong tau decays at LHCb

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Lepton Universality violation would represent a signal of physics beyond the Standard Model.

Semileptonic decays of beauty mesons into leptons of the third generation are of particular interest, since some anomalies have been observed in the measurement of their Branching Ratios.

In this talk I will illustrate the strategy and the perspectives of the measurement of $R(D^*) = \mathcal{B}(B^0 \rightarrow D^{*-} \tau^+ \nu_\tau) / \mathcal{B}(B^0 \rightarrow D^{*-} \mu^+ \nu_\mu)$, with $\tau \rightarrow 3\pi(\pi^0)\nu_\tau$, which is currently ongoing at the LHCb experiment.

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