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Semileptonic decays at LHCb

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The semileptonic b-hadron decays with a heavy lepton are sensitive to new couplings like those generated by charged Higgses or Leptoquarks. The B-Factories and LHCb have previously performed various measurements of these decays, using different approaches and techniques. A global average of these measurements shows a discrepancy with the Standard Model expectations, which is above 3 standard deviations. A measurement of the combined ratios $\text{BF}(B \rightarrow D\tau\nu)/\text{BF}(B \rightarrow D\mu\nu)$ and $\text{BF}(B \rightarrow D^*\tau\nu)/\text{BF}(B \rightarrow D^*\mu\nu)$ using 3/fb collected by LHCb in Run1, is presented.

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