

# 30th International Symposium on Lepton Photon Interactions at High Energies



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## Semileptonic decays at LHCb

*Tuesday 11 January 2022 14:00 (20 minutes)*

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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**Session Classification:** Quark and charged lepton flavour

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