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Measurement of semitauonic b-hadron decays

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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 $BF(B \rightarrow D \tau \nu)/BF(B \rightarrow D \mu \nu)$ and $BF(B \rightarrow D \tau \nu)/BF(B \rightarrow D \mu \nu)$ using $3/\text{fb}$ collected by LHCb in Run1, is presented.

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Collaboration / Activity

LHCb

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