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## **Search for new physics with semileptonic $b$ -hadron decays at LHCb ( $10' + 5'$ )**

*Friday 5 August 2016 17:00 (15 minutes)*

Semileptonic decays provide an excellent environment for testing the Standard Model. Violation of lepton universality would be a smoking gun for physics beyond the Standard Model. Moreover, the measurement of the CP asymmetry in mixing of  $B_s$  mesons provides an excellent check of the Standard Model. This talk presents the latest results on semileptonic asymmetries, including  $a_{\text{sl}}^{\pm}$ 's, and on semi-tauonic decays of  $b$ -hadrons at LHCb, including the ratio  $B(B \rightarrow D^* \tau \nu \tau) / B(B \rightarrow D^* \mu \nu \mu)$ .

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