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ON HIGH ENERGY PHYSICS**

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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 Bs mesons provides an excellent check of the Standard Model. This talk presents the latest results on semileptonic asymmetries, including a_{sl}^{\pm} 's, and on semi-tauonic decays of b-hadrons at LHCb, including the ratio $B(B \rightarrow D^* \tau \nu \tau) / B(B \rightarrow D^* \mu \nu \mu)$.

Presenter: KLAVER, Suzanne (University of Manchester (GB))

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