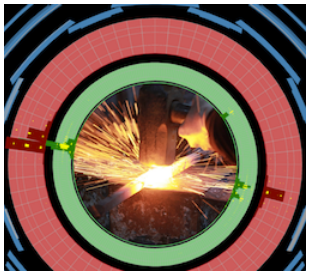

Contribution ID: **17** Type: **parallel talk**

Tests of Lepton Flavour Universality with b-hadron decays at LHCb

Tuesday, 10 May 2016 16:30 (15 minutes)

Lepton Flavour Universality is enforced in the Standard Model by construction. Any Violation of LFU would be a clear sign of new physics. Existing hints of non universality are already present in the leptonic and semileptonic decays of B mesons. The semitauonic decays in particular, are sensitive to contributions from non-standard-model-particles that preferentially couple to the third generation of fermions,the Higgs-like charged scalars. Also, electroweak penguin decays can be used to test lepton flavour universality between the first and the second leptonic families. This talk reports recent studies of $B^0 \to D^* \tau \nu$ and $B^0 \to K^{(*)} ll$ decays at the LHCb experiment.

Summary

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Session Classification: Heavy Flavor