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Flavored mono-tau searches at the LHC

Tuesday, 16 April 2019 12:10 (25 minutes)

I will discuss the crossing-symmetry relation between $b \to c\tau\nu^-$ decay and $bc^- \to \tau\nu^-$ scattering. At low energies, this allows one to correlate New Physics contributions to the semitauonic B decays to the B(c) lifetime. At high energies, one derives direct correlations to the mono-tau signature at the LHC ($pp \to \tau hX$ + MET). I will discuss the impact of these considerations in New Physics explanations addressing the R(D*) anomalies and, more in general, the potential of the LHC to provide relevant inputs for Flavor Physics.

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