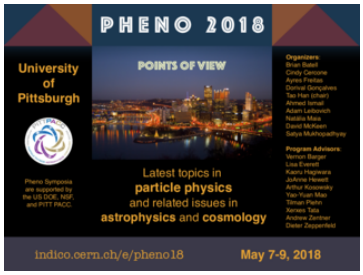

Contribution ID: **486** Type: **parallel talk**

New physics in inclusive $B \to X_c \tau \bar{\nu}$ decay in light of R(D^{(*)}) measurements

Monday 7 May 2018 17:00 (15 minutes)

We present the effects of new physics operators with different Lorentz structures on the inclusive $B \to X_c \tau \bar{\nu}$ decay and make predictions for the ratio of total decay rates, $R(X_c)$ and some differential observables including the forward-backward asymmetry. We include $\mathcal{O}(\alpha_s)$ radiative and $1/m_b$ non-perturbative corrections to these observables in the Standard Model (SM). We also present some leptoquark models as explicit examples of new physics effects.

Summary

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