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Particle Physics at LPTHE

Jeudi 24 Mai 2018, 14:00

LPTHE, Library Domaines : hep-ph

Titre: Direct Search for b-anomaly New Physics at FCC

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Résumé: There are some discrepancies with respect to Standard Model predictions in measurements of b-meson decays. After reviewing the discrepancies and effective field theory fits, we examine simplified models of new physics that may explain a subset of them: in particular, $B \to K^{(*)} \mu^+ \mu^-$. There are two such classes of model that explain the discrepancies at tree-level: leptoquarks or Z' models. We then examine the prospects of detecting these two explanations at future colliders: the future circular collider and the high luminosity or high energy versions of the LHC.