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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.*