

Leptoquark toolbox for precision collider studies

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I will introduce a toolbox for precision collider studies of the leptoquark production mechanisms in the proton-proton collisions. The study I plan to present was prompted by the need for an up-to-date Monte Carlo event generator output that could be used for the current and future experimental searches and search recasts. I will, accordingly, report the NLO QCD inclusive cross sections in proton-proton collisions at various center-of-mass energies for all on-shell leptoquark production processes and, in view of these results, discuss the leptoquark search strategy.

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