$13~{ m TeV}$ LHC parton kinematics 10^{9} $x_{1,2} = \left(\frac{M}{13 \text{ TeV}}\right) \exp(\pm y)$ 10^{8} M = 10 TeQ = M 10^{7} 10^{6} $Q^2 (\text{GeV}^2)$ 10^{5} 10^{4} 10^{3} 10^{1} Fixed target HERA 10^{-3} 10^{-5} 10^{-2} 10^{-1} 10^{-4}

Figure 1: Graphical representation of the relationship between parton (x, Q^2) variables and the kinematical variables corresponding to a final state of invariant mass M produced with rapidity y at the LHC collider with $\sqrt{s} = 13$ TeV.

x