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Review of top and EW physics at future colliders

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In the next decades the Large Hadron Collider and its luminosity upgrade are expected to yield a wealth of increasingly sensitive searches and measurements in hadro-production of top quarks and electro-weak gauge bosons. Several projects are being prepared for energy-frontier lepton (ILC, CLIC, FCCee, CEPC, mC), electron-proton (LHeC), hadron colliders (FCChh, SPPC) that are to continue this quest. In this review I collect the results of a large number of studies into the top and EW physics potential of the HL-LHC and future colliders. A model-independent comparison of the BSM potential is performed in the framework of an effective field theory. I discuss the strengths and weaknesses of lepton and hadron colliders and identify areas where different projects can provide complementary information.

Experimental Collaboration

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