

# Probing the weak scale effectively

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Since the discovery of the Higgs boson, our search for new fundamental particles and forces has seen a big change. Against all expectation, data suggests that physics beyond the standard model is either too heavy to be directly produced at today's colliders or interacts very weakly with the particles we know. Either case requires to search for small deviations in precise observables. In this talk, I advocate a data-driven and largely model-independent strategy to scrutinize the Higgs boson and the strongly connected top-quark for signs of new physics. I show how combining information from complementary observables and across experiments maximizes the discovery potential for new physics at colliders.

