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The Higgs production rates at Tevatron and at the LHC

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The accuracy of theoretical predictions for the production of the Higgs boson at hadron colliders is an important topical issue. Inclusive Higgs production originates from simple processes, very similar kinematically to Drell-Yan production which is a flagship of precision physics at hadron colliders. However, the predominantly gluonic initial state, the non-classical coupling of the Higgs boson to gluons, stronger electroweak effects, and the yet undetermined structure of the Higgs interactions due to possible physics beyond the Standard Model, complicate the estimation of Higgs production rates. I will review the theoretical status of Higgs cross-sections and assess their precision at the Tevatron and the LHC.

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