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## **Theory Predictions for LHC Higgs Boson Production**

*Saturday 20 July 2013 10:15 (12 minutes)*

I will review existing state of the art tools which have allowed us to accurately predict the Higgs boson signal at the LHC. Primary sources of uncertainties of these predictions stem from higher order QCD corrections. I shall discuss the validity of current simulations and how much their uncertainties could be reduced once the full NNNLO corrections are known. Further I shall give an overview of ongoing efforts towards this goal.

**Primary author:** HERZOG, Franz

**Presenter:** HERZOG, Franz

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