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Higgs boson production at LHC to NNLO accuracy and finite top quark mass effects

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In this talk we consider the production of the Standard Model Higgs boson in the gluon fusion process to NNLO. An approach is presented which allows the calculation of the cross section beyond the heavy-top quark approximation thus leading to results which include the effects of a finite top quark mass. Numerical results are shown for the CERN Large Hadron Collier (LHC).

Primary author: Prof. STEINHAUSER, Matthias (KIT)

Co-authors: Dr PAK, Alexey (KIT); Dr ROGAL, Smirnov (KIT)

Presenter: Prof. STEINHAUSER, Matthias (KIT)

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