

Electroweak Effects and Cross Section for Higgs production in gluon fusion process

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We present results for the mixed QCD-electroweak correction to the Higgs boson production cross section in gluon fusion process arising from light quarks, probing the factorization of QCD and electroweak corrections in this process. We show an updated theoretical prediction for the cross section based on this correction, the best current estimates for contributions from top and bottom quarks and the newest PDFs (MSTW2008).

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