

ZH Production in Gluon Fusion

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We present NLO results in QCD for the production of a Higgs boson in association with a Z-boson in gluon fusion including top-quark mass effects. Our result is obtained by combining virtual corrections evaluated numerically using sector decomposition with virtual corrections obtained in an expansion around small top-quark mass. In addition to the total cross section for this process, we present also differential results including the invariant mass distribution and p_T distributions for the Higgs boson and Z-boson.

Primary authors: MISHIMA, Go (Tohoku Univ.); DAVIES, Joshua (University of Sussex); STEINHAUSER, Matthias (KIT); JONES, Stephen (CERN); HEINRICH, Gudrun (KIT Karlsruhe); Dr SCHLENK, Johannes (PSI); Dr CHEN, Long (RWTH Aachen); KERNER, Matthias (Universtiy of Zurich)

Presenter: JONES, Stephen (CERN)

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