

# Direct space resummation for Higgs and Drell-Yan at N3LL

*Tuesday, 28 August 2018 14:52 (17 minutes)*

We present a direct space resummation formalism for colour singlet production in hadronic collisions. We focus on N3LL results for Higgs boson production in gluon-gluon fusion as well as results for Drell-Yan production, we show predictions with phenomenological cuts matched to NNLO fixed-order predictions.

**Primary author:** Mr BIZON, Wojciech (University of Oxford (GB))

**Co-authors:** MONNI, Pier Francesco (CERN); RE, Emanuele (CERN); TORRIELLI, Paolo; ROTTOLI, Luca (University of Oxford)

**Presenter:** Mr BIZON, Wojciech (University of Oxford (GB))

**Session Classification:** Monte Carlo and resummation

**Track Classification:** Monte Carlo and Resummation