

## Soft gluon resummation in associated production of top-antitop pair and a H, Z or W boson

*Wednesday, November 27, 2019 12:30 PM (20 minutes)*

Soft gluon resummation for associated t-tbar pair and a H, Z or W boson is performed up to the NNLL accuracy in QCD. The results are matched to the NLO QCD and calculations. The total hadroproduction cross sections at the LHC are obtained as well as selected kinematical distributions. It is shown that the resummation leads to higher theoretical precision. Results are compared to data from the LHC.

**Primary authors:** Prof. KULESZA, Anna (Munster University); SCHWARTLÄNDER, Daniel (Munster University); STEBEL, Tomasz (Jagiellonian University); Dr THEEUWES, Vincent (Gottingen University); MOTYKA, Leszek (Jagiellonian University)

**Presenter:** MOTYKA, Leszek (Jagiellonian University)

**Session Classification:** Wednesday 2