

# Electroweak corrections to non-zero-pT Z-boson production at pp colliders

*Monday 23 November 2020 17:27 (3 minutes)*

We calculate fixed-order electroweak corrections to the angular coefficients parameterizing the Drell-Yan process in the Z-boson mass range. We examine how the electroweak corrections affect the Lam-Tung relation, which was measured at the LHC to deviate from the SM predictions. For the calculations, we introduce a technical single lepton cut in order to avoid a double-soft/collinear singularity in the electroweak corrections. We investigate how the size of this cut alters the NLO electroweak and NLO QCD corrections to the coefficients and the Lam-Tung relation.

## Abstract Track

Flash talk, theory

**Authors:** FREDERIX, Rikkert (Lund University); VITOS, Timea (Lund University)

**Presenter:** VITOS, Timea (Lund University)

**Session Classification:** Monday afternoon