

## Z boson production in association with a jet at NNLO QCD (15+5min)

*Friday, 4 September 2015 12:20 (20 minutes)*

We will review our recent calculation of Z boson production in association with a jet up to Next-to-Next-to-Leading Order (NNLO) precision in QCD, as shown in arXiv:1507.02850. This is a key process at the LHC, given its large event rate and clean signature with the Z boson decaying leptonically. We will discuss our approach using the antenna subtraction scheme and present new results of the fully inclusive Z  $p_T$  distribution.

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**Session Classification:** Hard QCD