

Impact of bugfix on the DIS process

NNLOJET

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1 HERA High- Q^2 Inclusive Jets

- measurement from: [arxiv-1406.4709](https://arxiv.org/abs/1406.4709)
- $E_e = 27.6$ GeV and $E_p = 920$ GeV
- NNPDF31_nnlo_as_0118
- scale choice: $\mu_0 = \sqrt{(Q^2 + p_{T,j}^2)/2}$
- corresponding grid files: <https://ploughshare.web.cern.ch/ploughshare/record.php?dataset=applfast-h1-incjets-fnlo-arxiv-1406.4709>

2 Results & comparison

- NNLO predictions move closer to NLO at low Q^2 and the shift can be as large as 16% NNLO corrections going down to 8% at low transverse momenta.
- Impact of the bugfix becomes gradually smaller towards higher Q^2 bins
- Opposite shift in the highest Q^2 bin.



