



Catalog of Plots

The NNPDF Collaboration:

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Nathan P. Hartland, José I. Latorre, Juan Rojo and Maria Ubiali.

September 24, 2012

References

- [1] R. D. Ball, V. Bertone, S. Carrazza, C. S. Deans, L. Del Debbio, S. Forte, A. Guffanti and N. P. Hartland *et al.*, “Parton distributions with LHC data”, arXiv:1207.1303 [hep-ph].

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1 Experimental dataset

NNPDF2.3 dataset

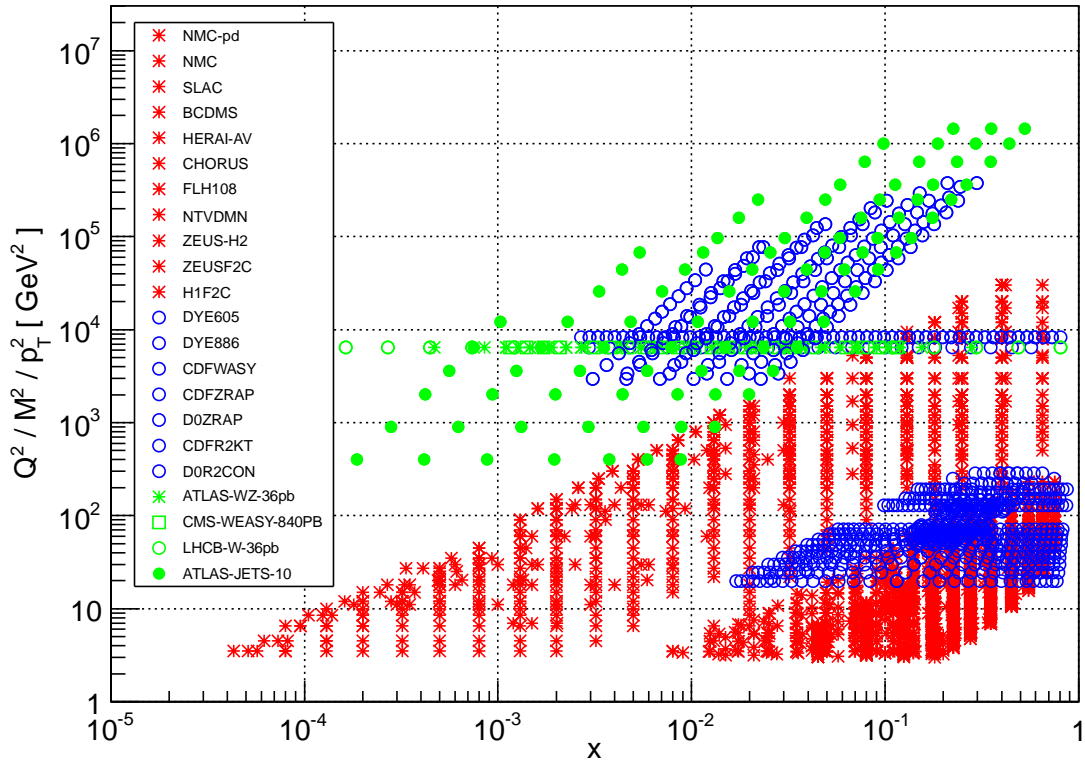


Figure 1: Download (eps, png)

2 Fit properties

2.1 $\chi^{2(k)}$ distributions

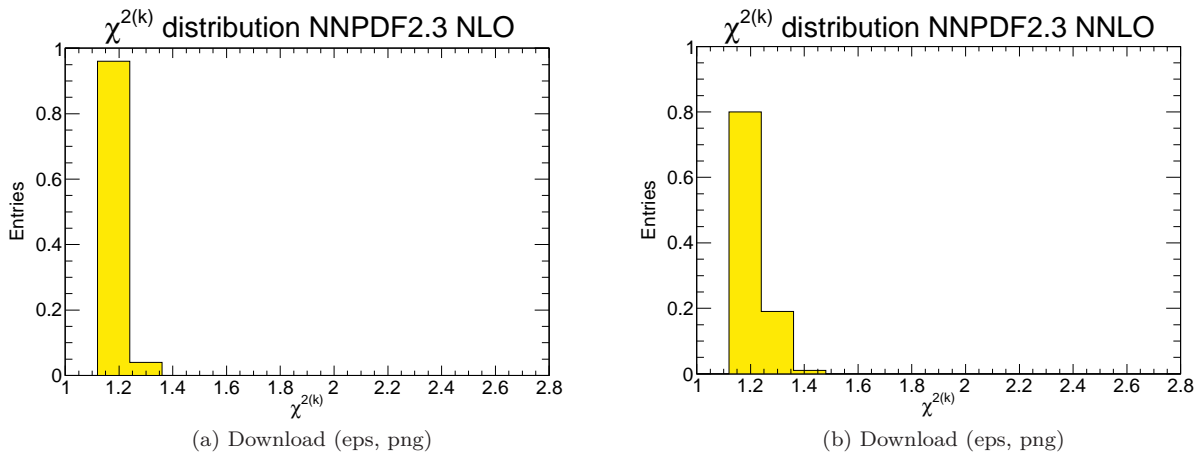


Figure 2

2.2 $E_{t|l}$ distributions

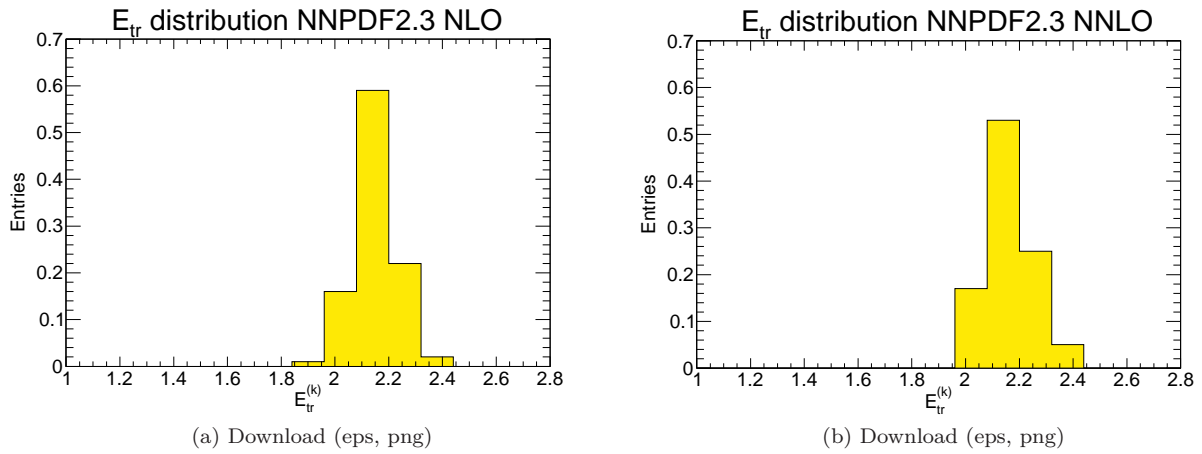


Figure 3

2.3 Distributions of training lengths

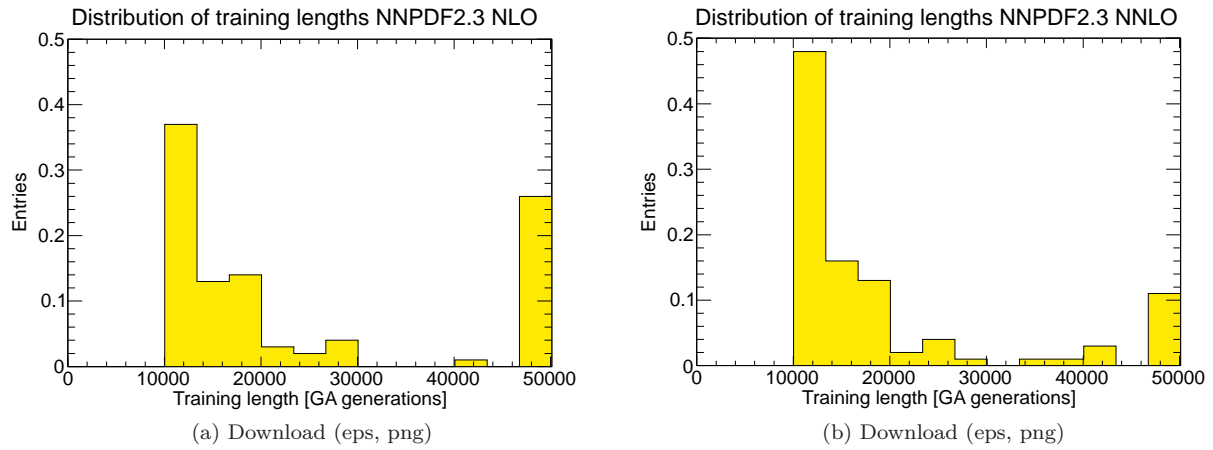


Figure 4

3 PDFs comparison

3.1 NNPDF2.3 NLO vs NNPDF2.1 NLO

3.1.1 Evolution basis

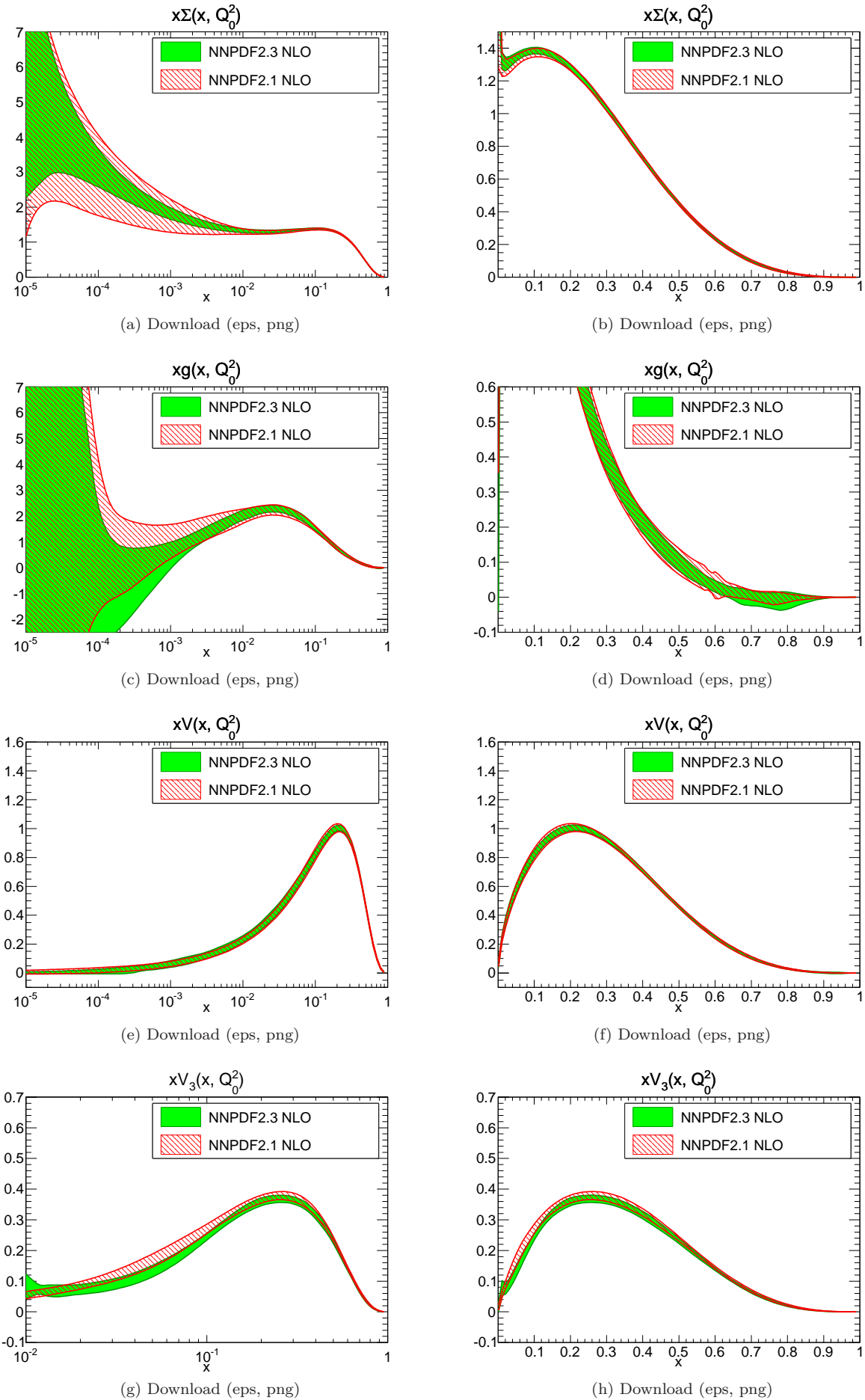
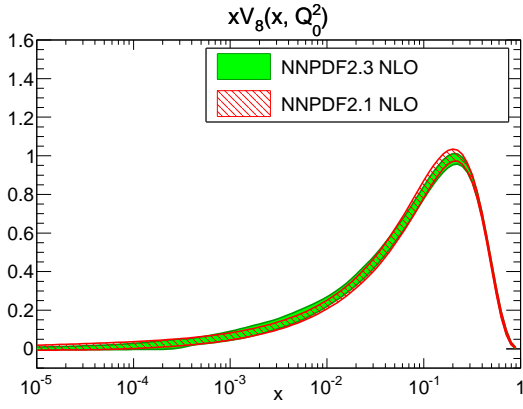
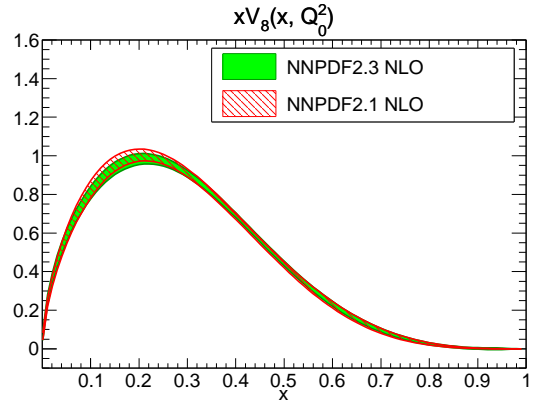


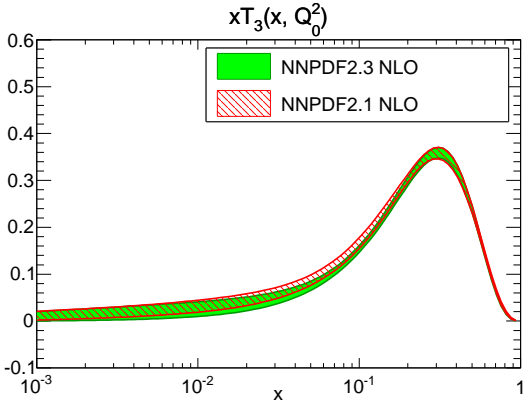
Figure 5
6



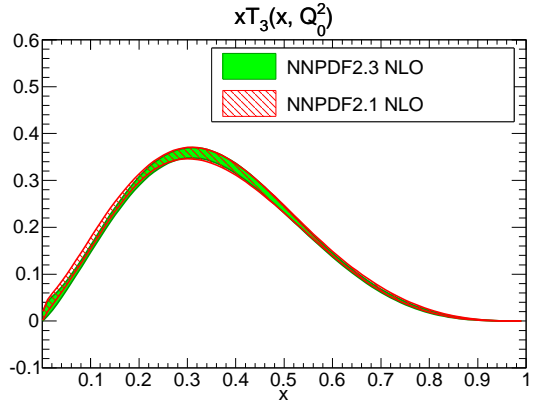
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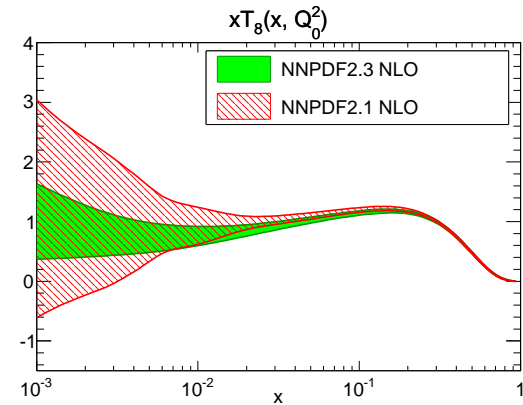
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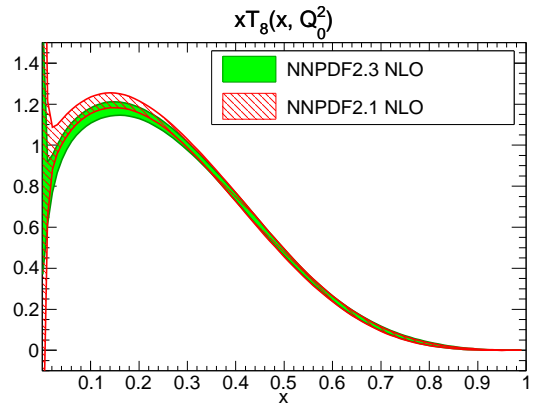
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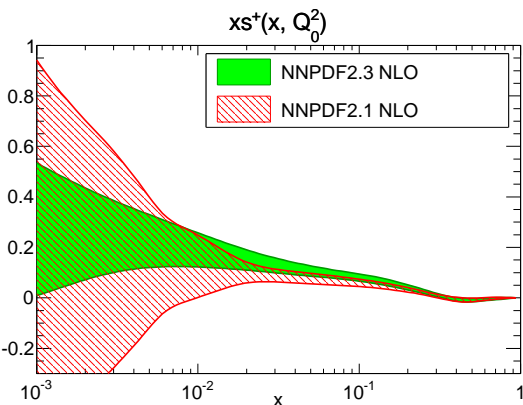
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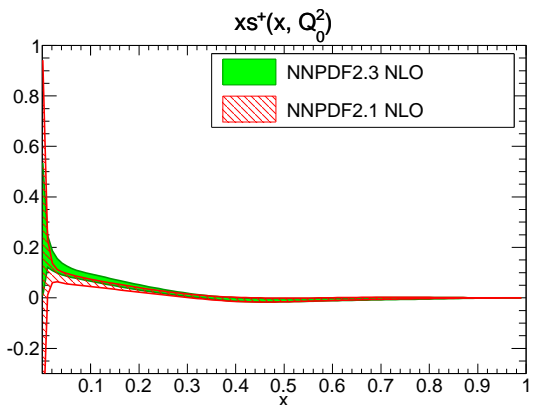
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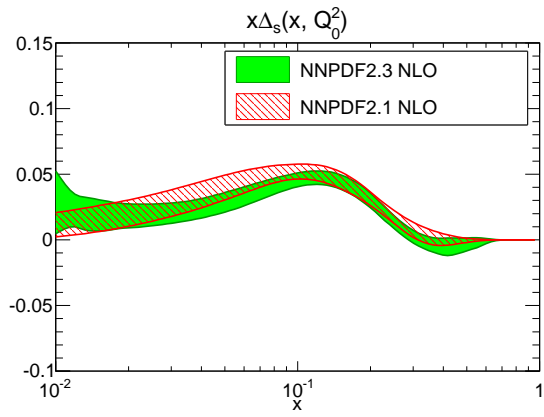


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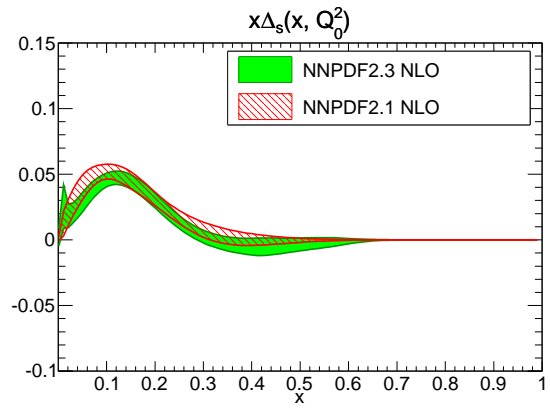


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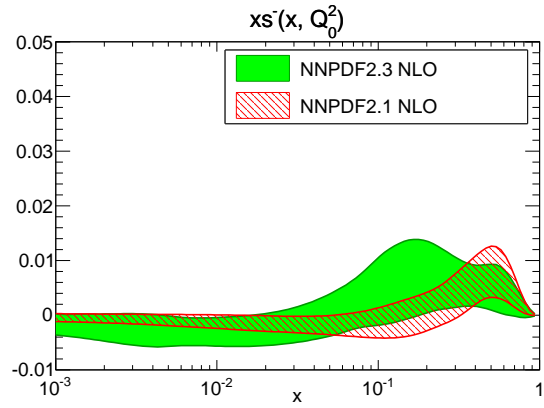
Figure 6



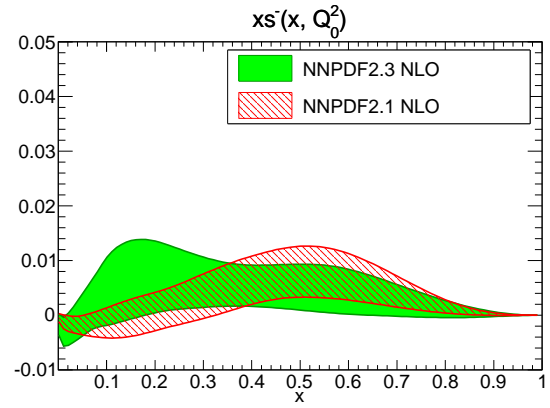
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(d) Download (eps, png)

Figure 7

3.1.2 Flavor basis

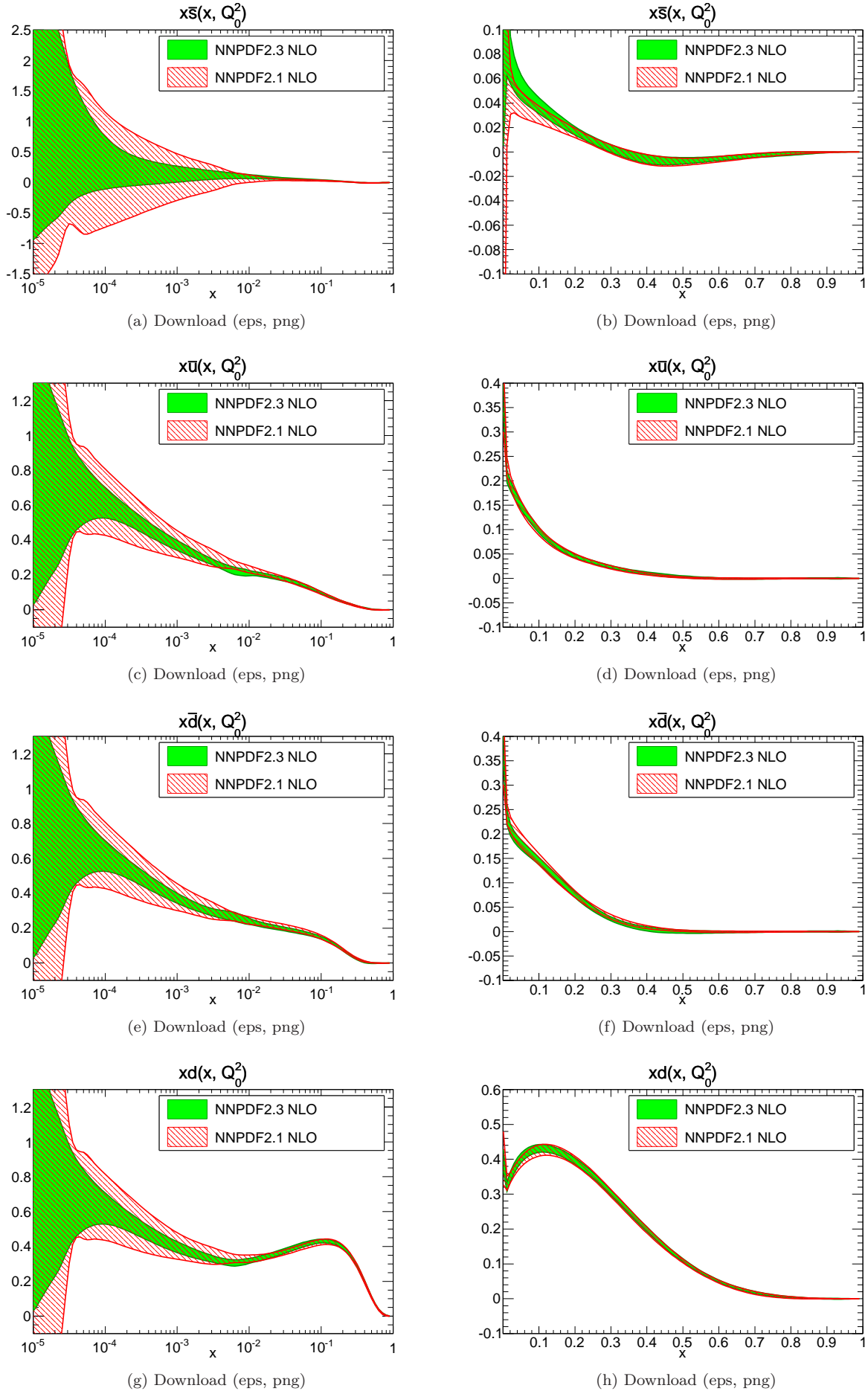


Figure 8

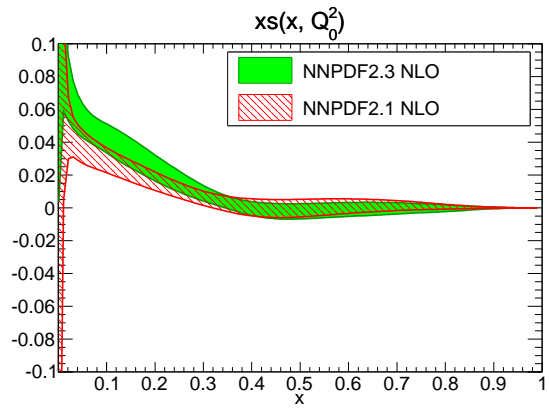
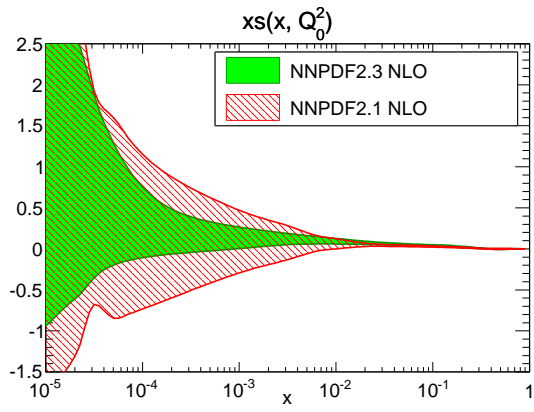
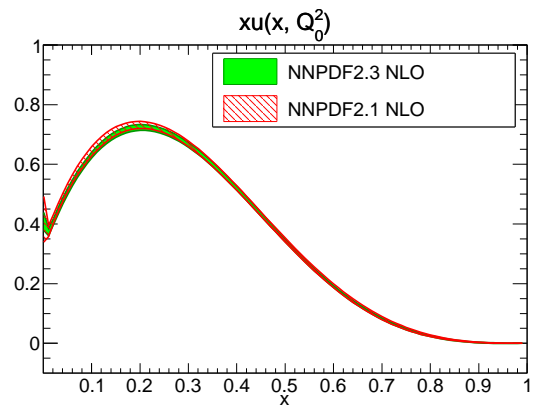
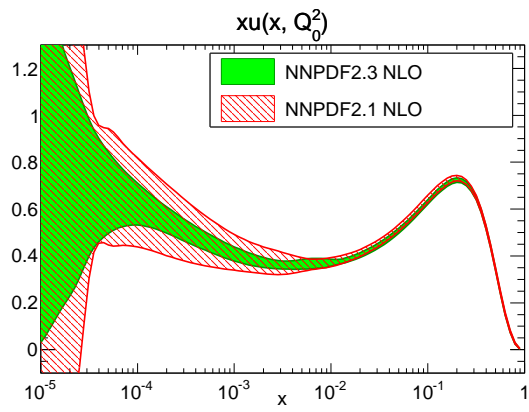


Figure 9

3.1.3 Replicas NNPDF2.3 NLO at $Q^2 = 2 \text{ GeV}^2$

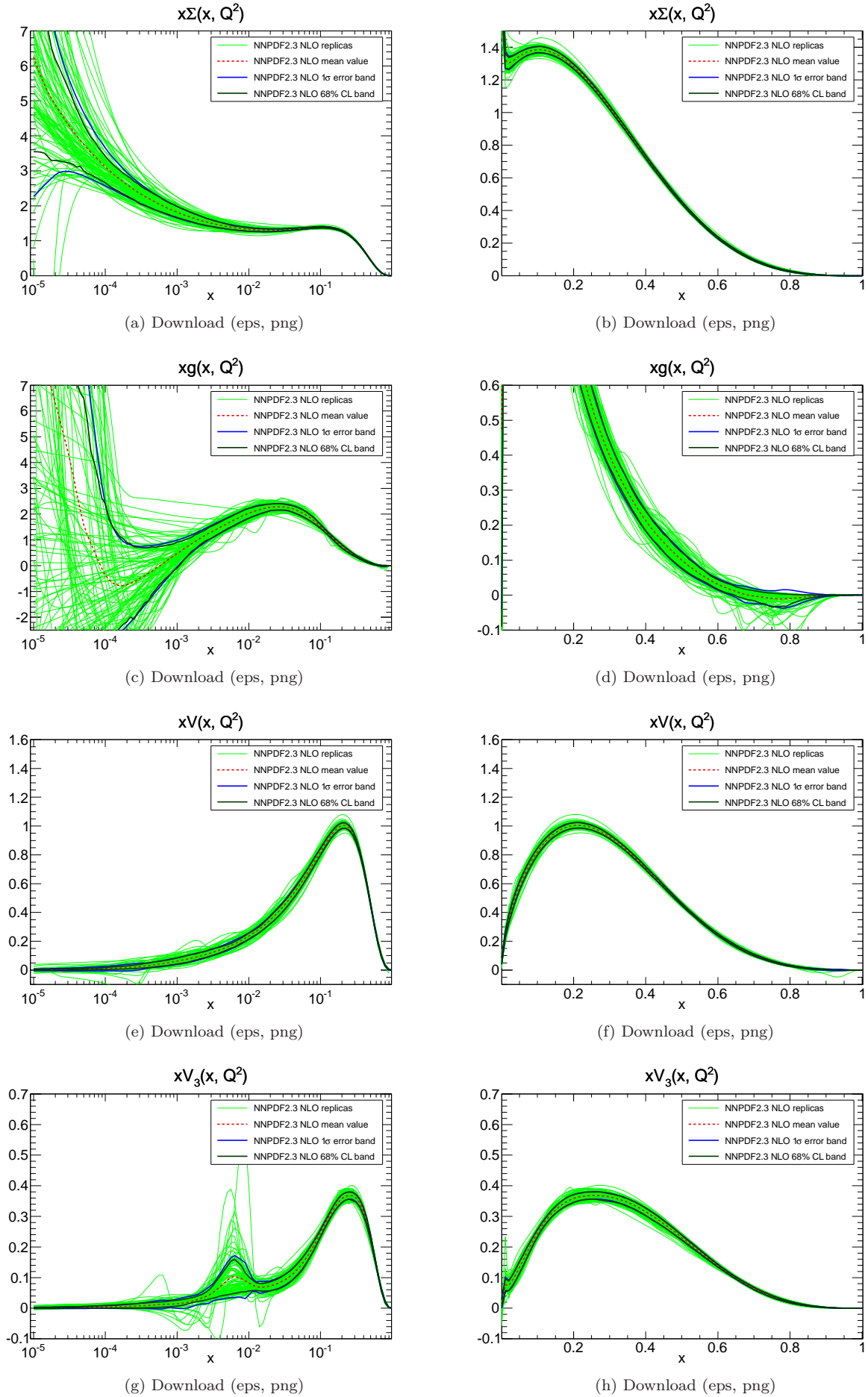
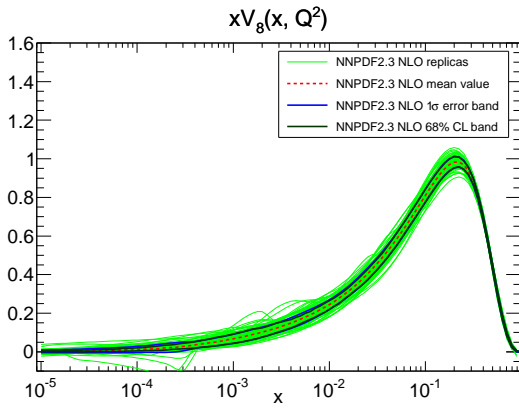
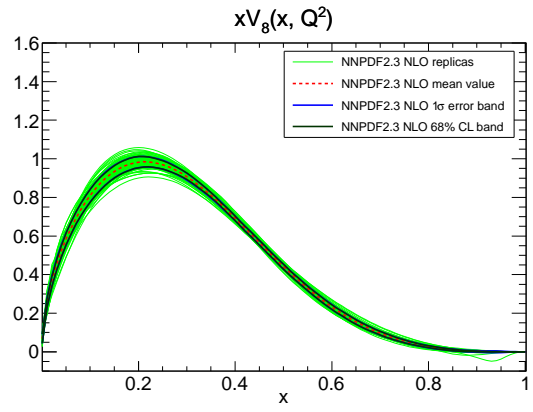


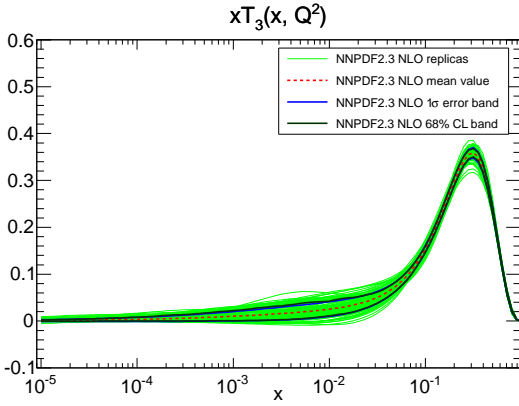
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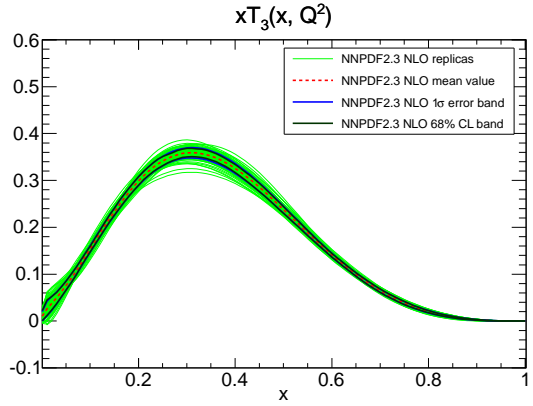
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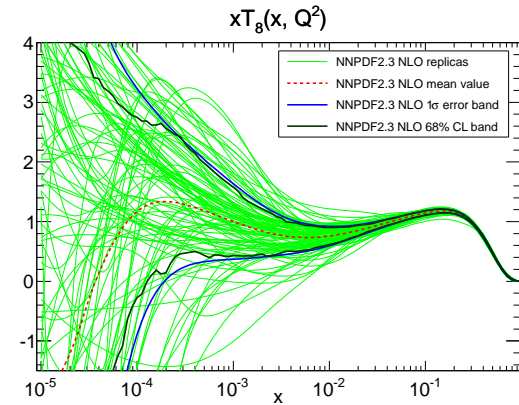
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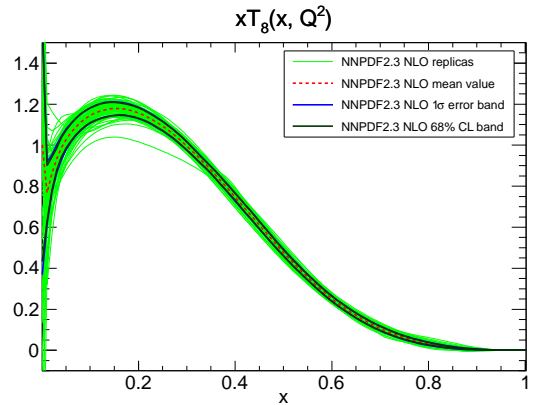
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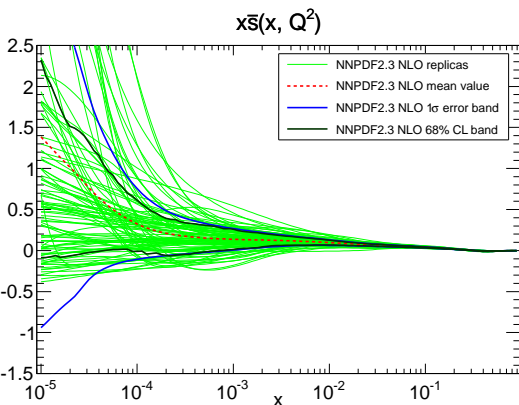
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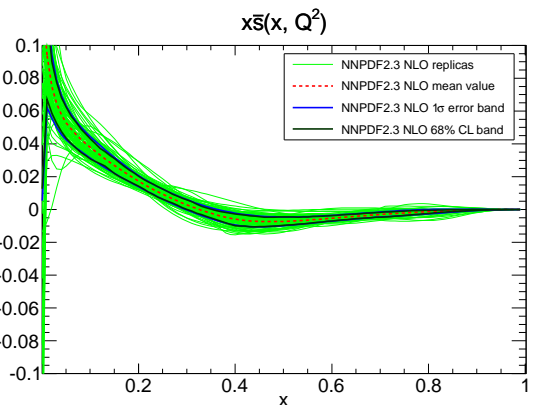
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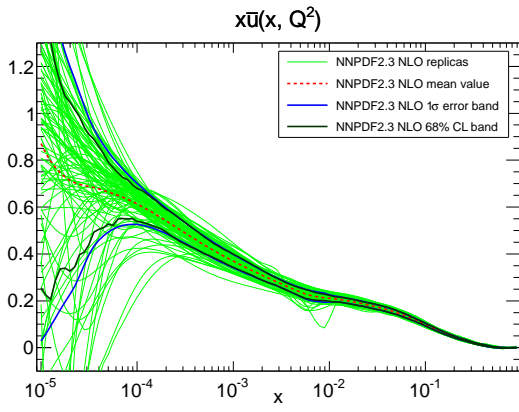


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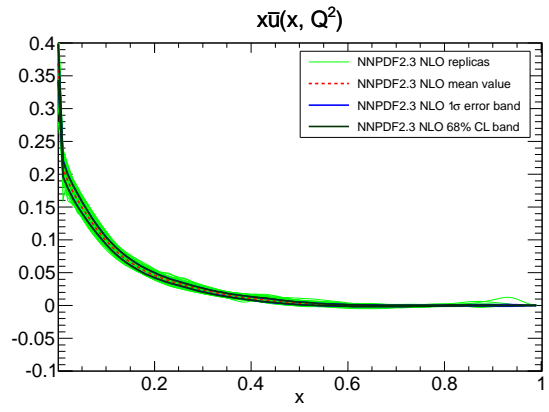


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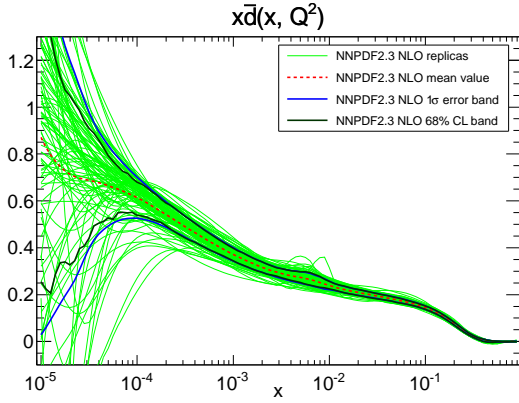
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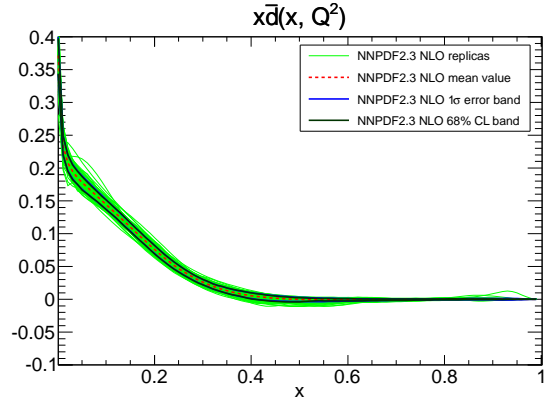
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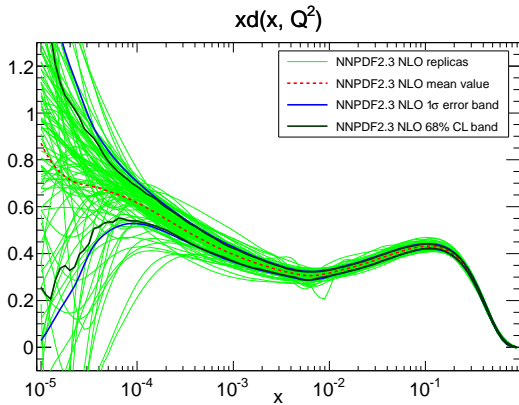
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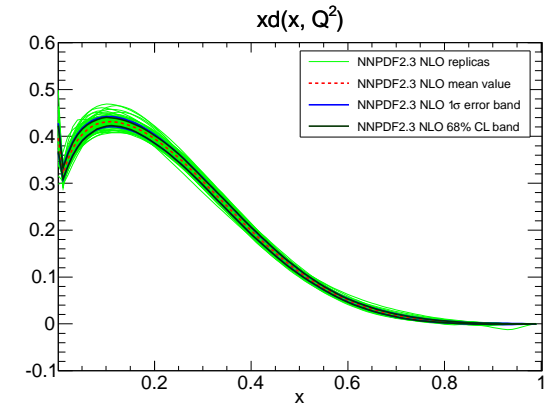
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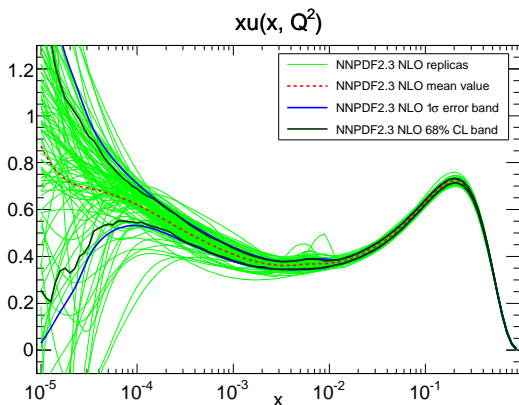
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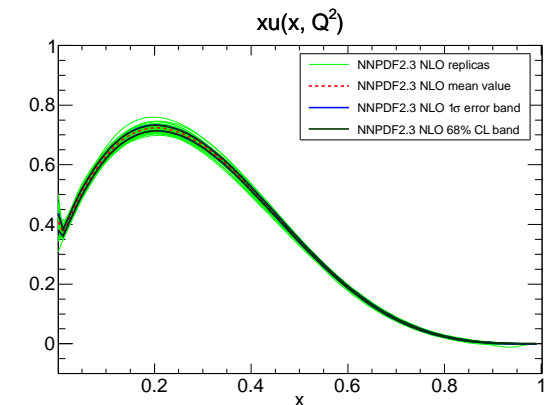
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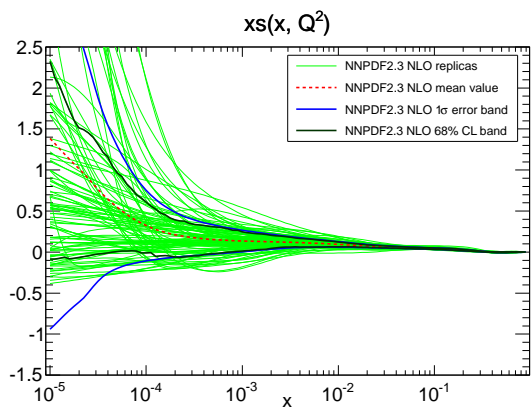


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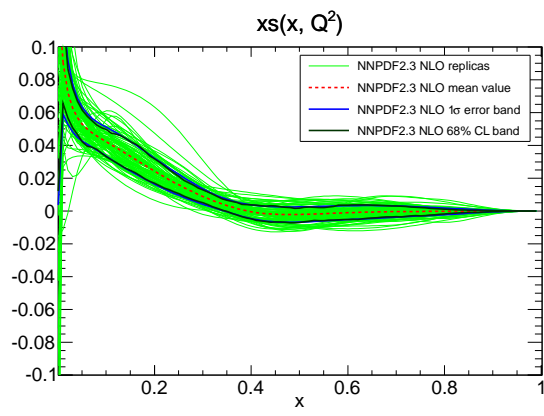


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Figure 12



(a) Download (eps, png)



(b) Download (eps, png)

Figure 13

3.2 NNPDF2.3 NNLO vs NNPDF2.1 NNLO

3.2.1 Evolution basis

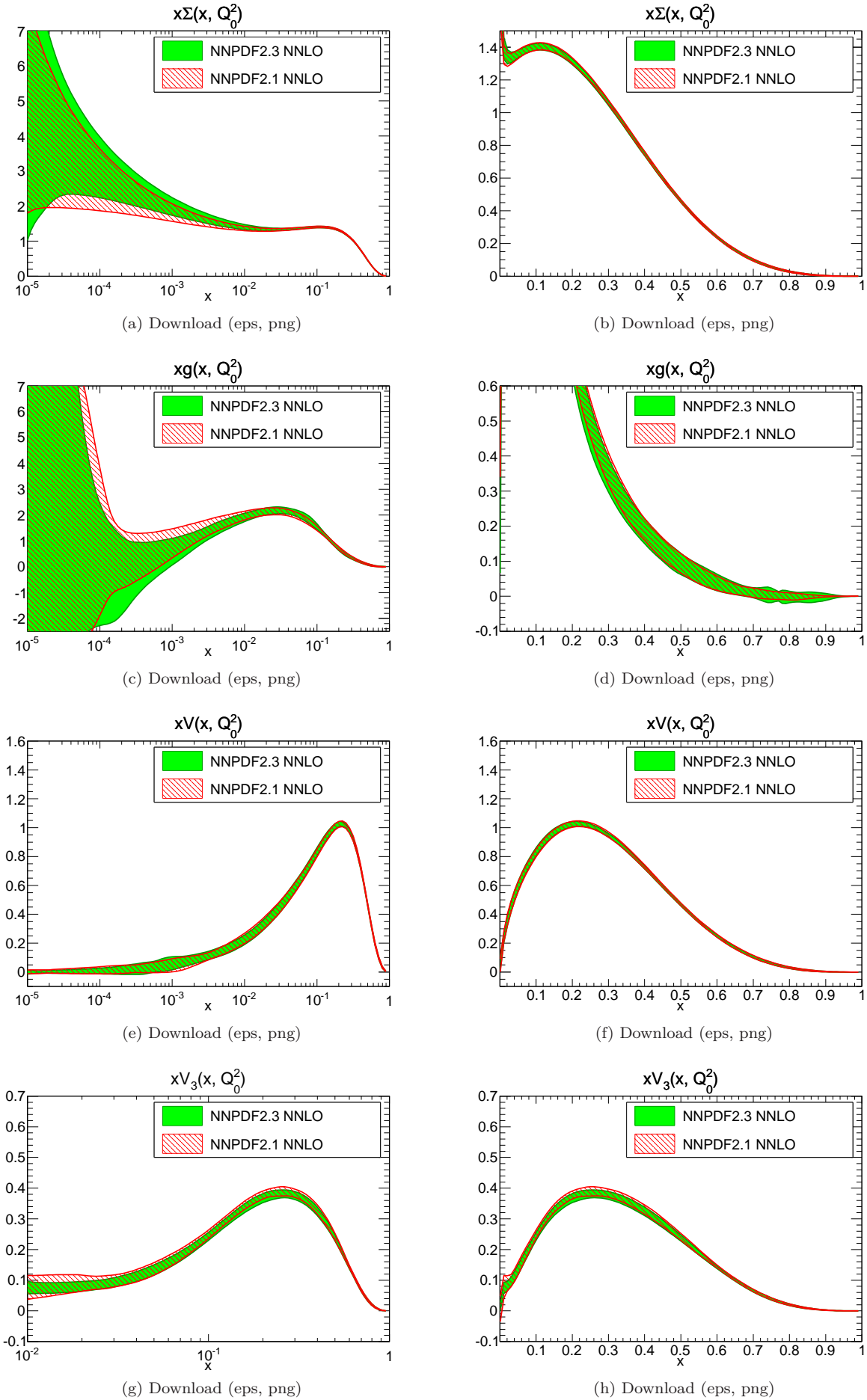
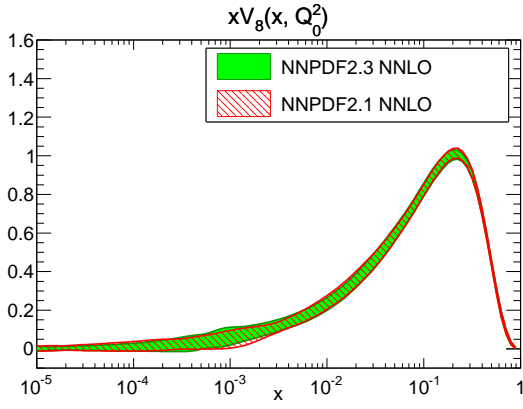
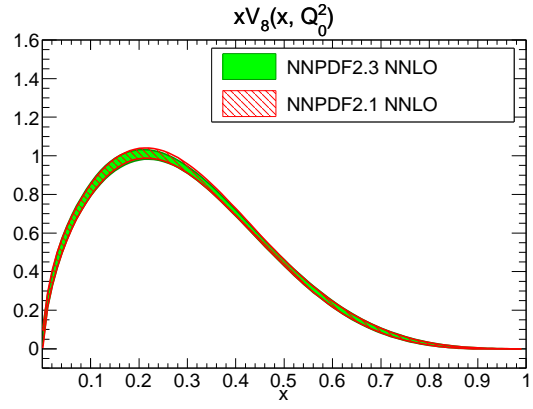


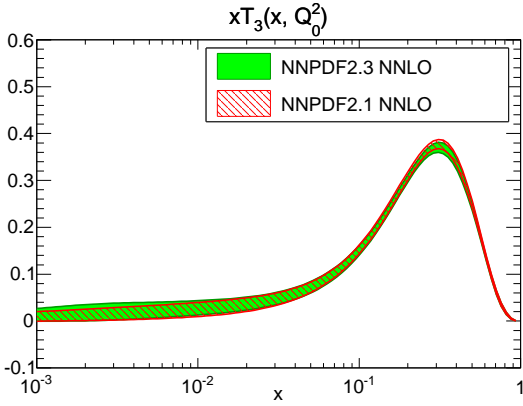
Figure 14



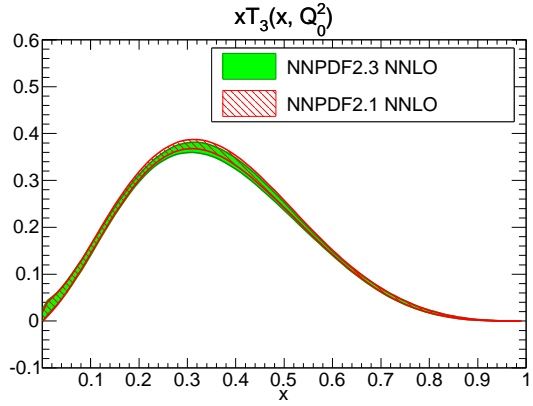
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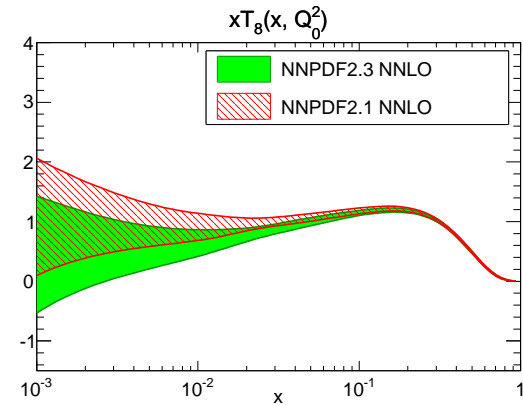
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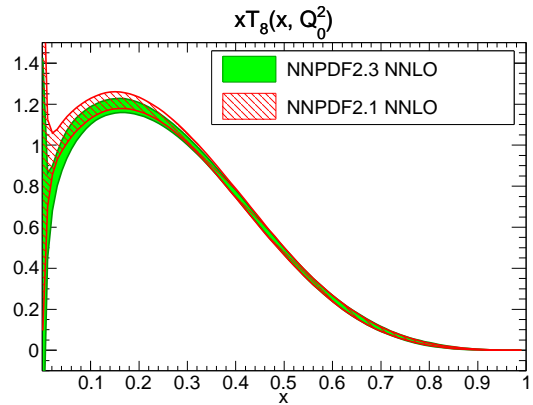
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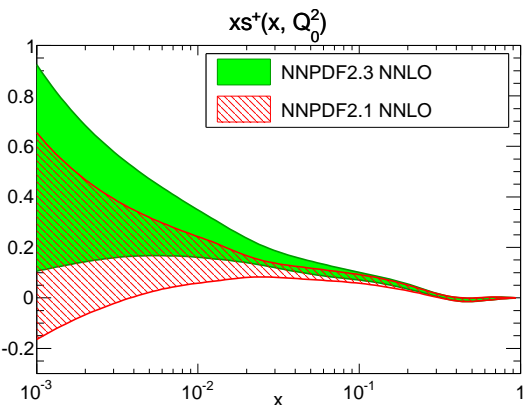
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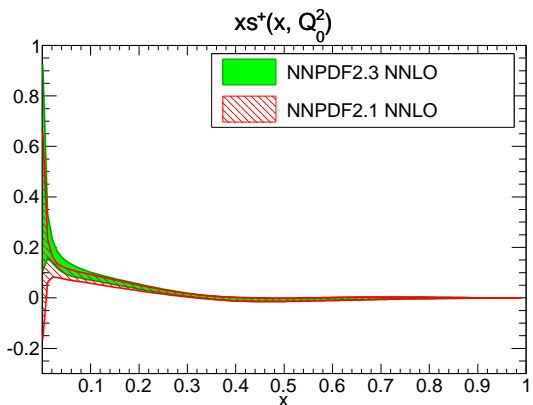
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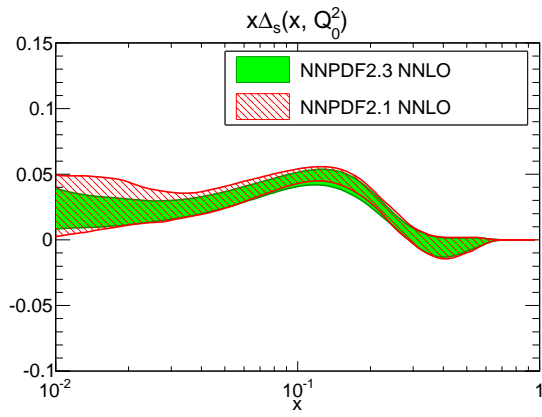


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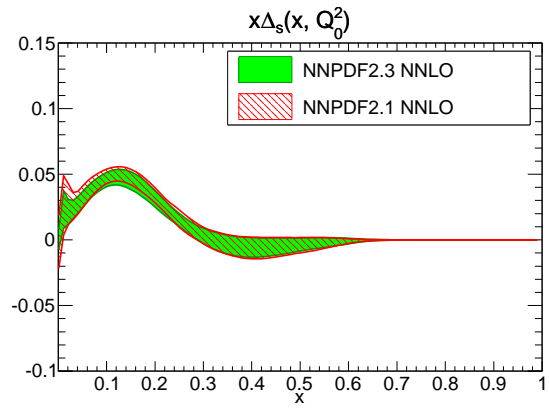


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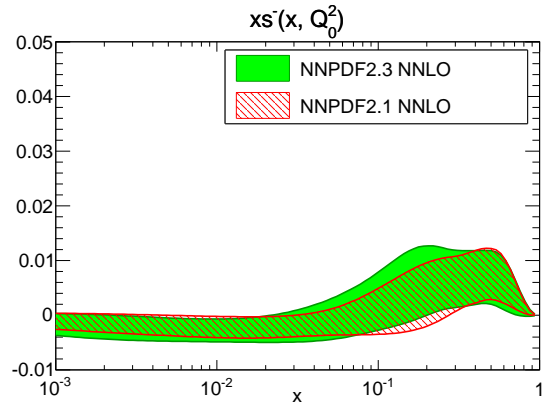
Figure 15



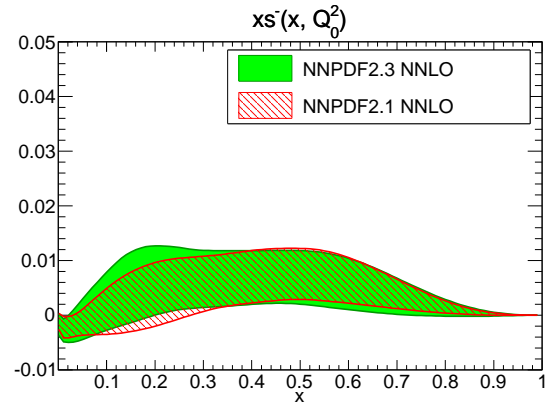
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Figure 16

3.2.2 Flavor basis

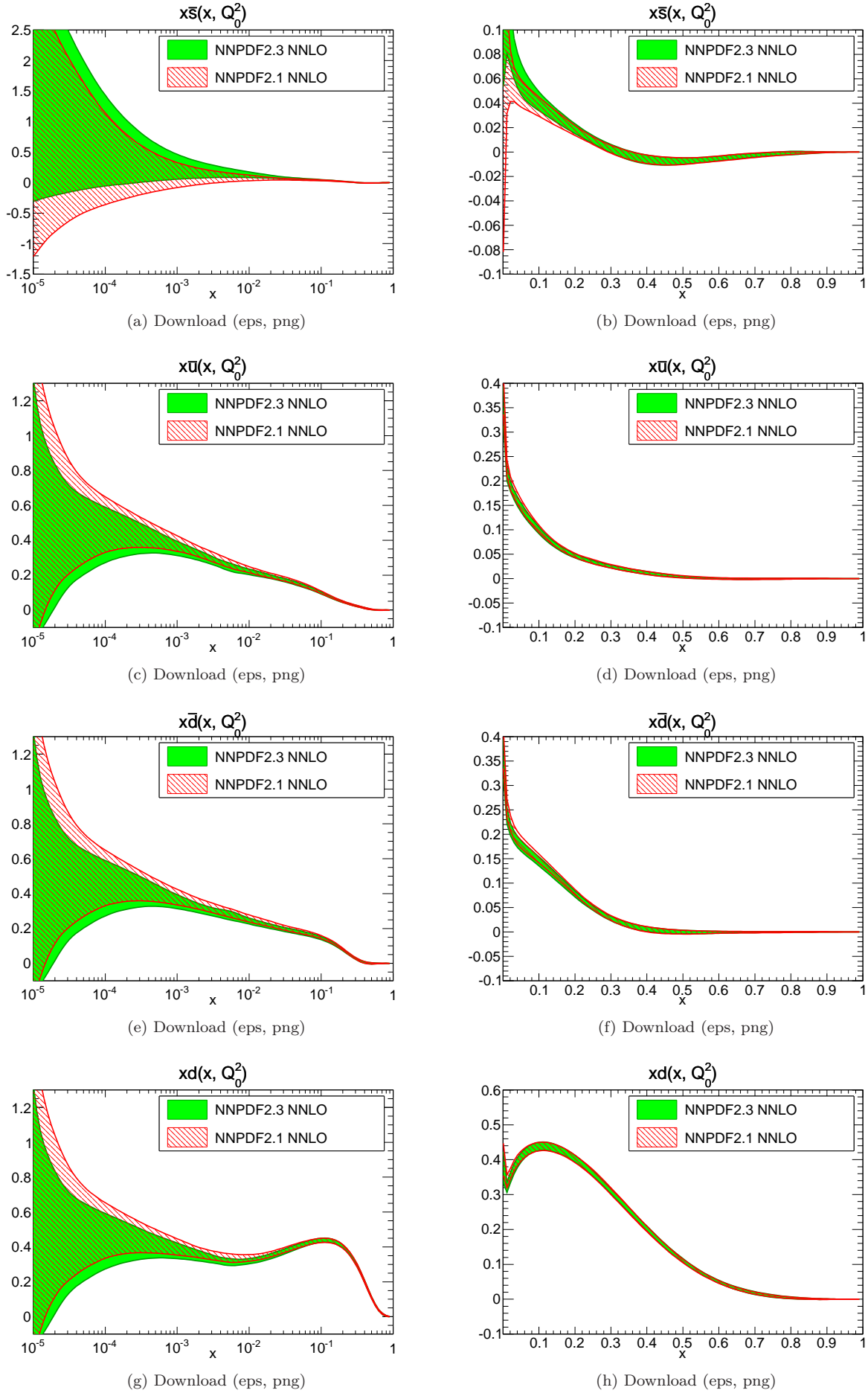
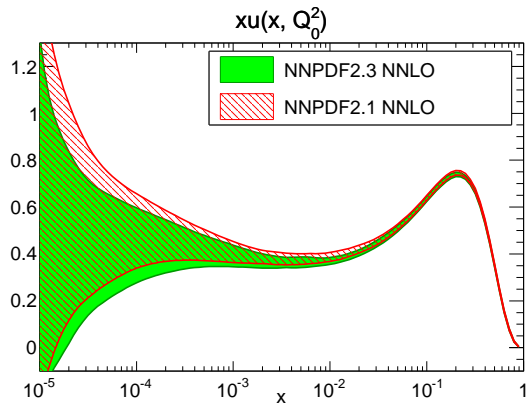
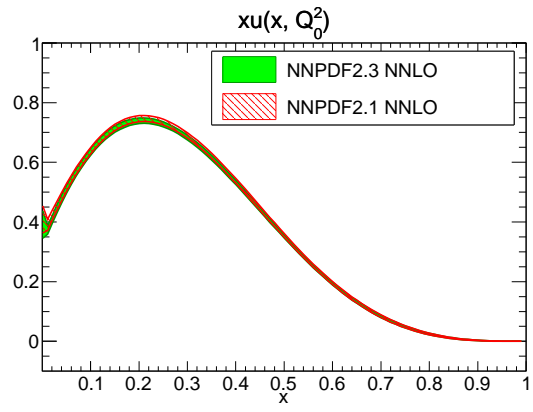


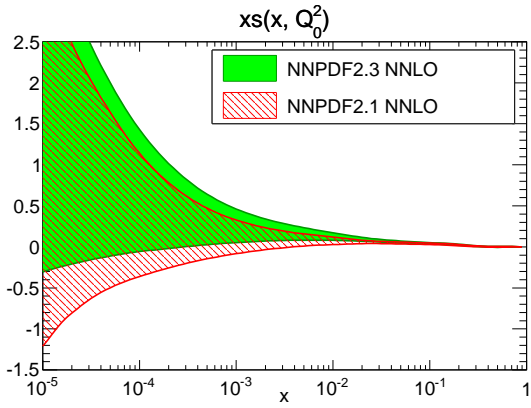
Figure 17



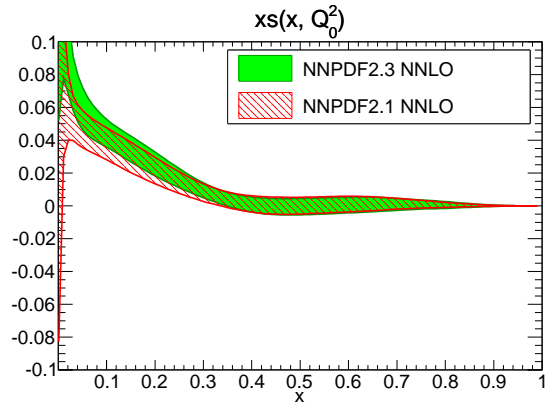
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Figure 18

3.2.3 Ratio at $Q^2 = 10^4 \text{ GeV}^2$

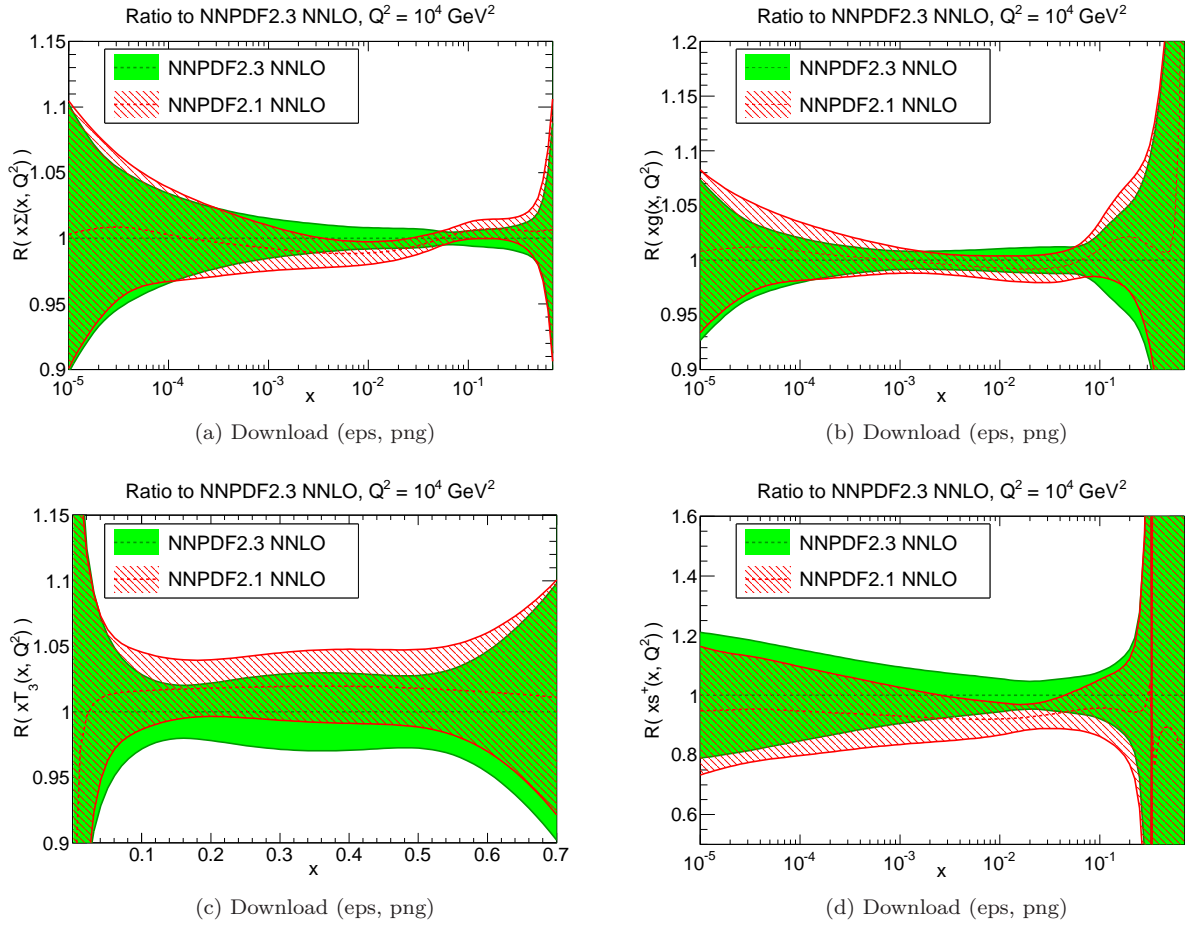


Figure 19

3.2.4 Replicas NNPDF2.3 NNLO at $Q^2 = 2 \text{ GeV}^2$

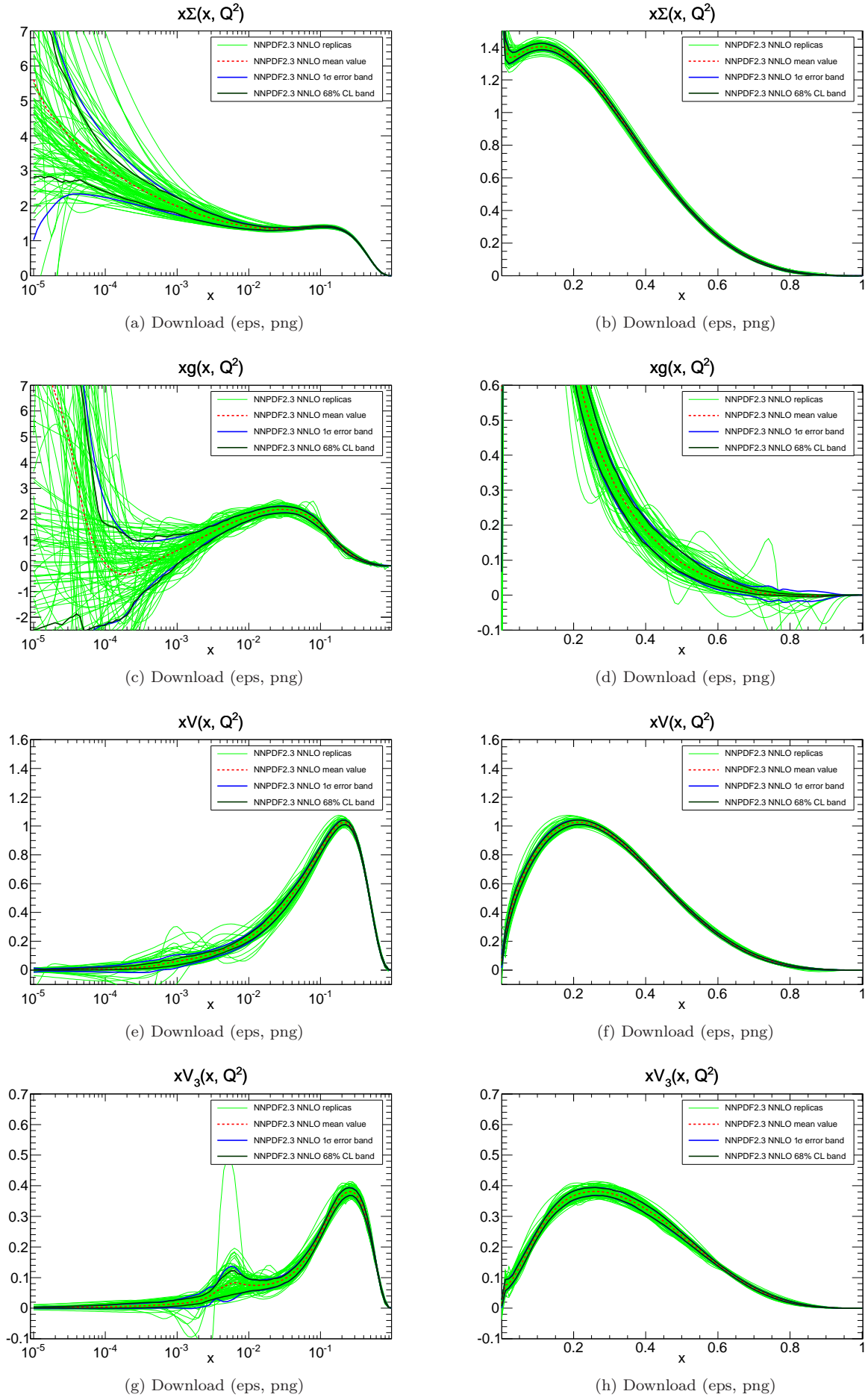


Figure 20

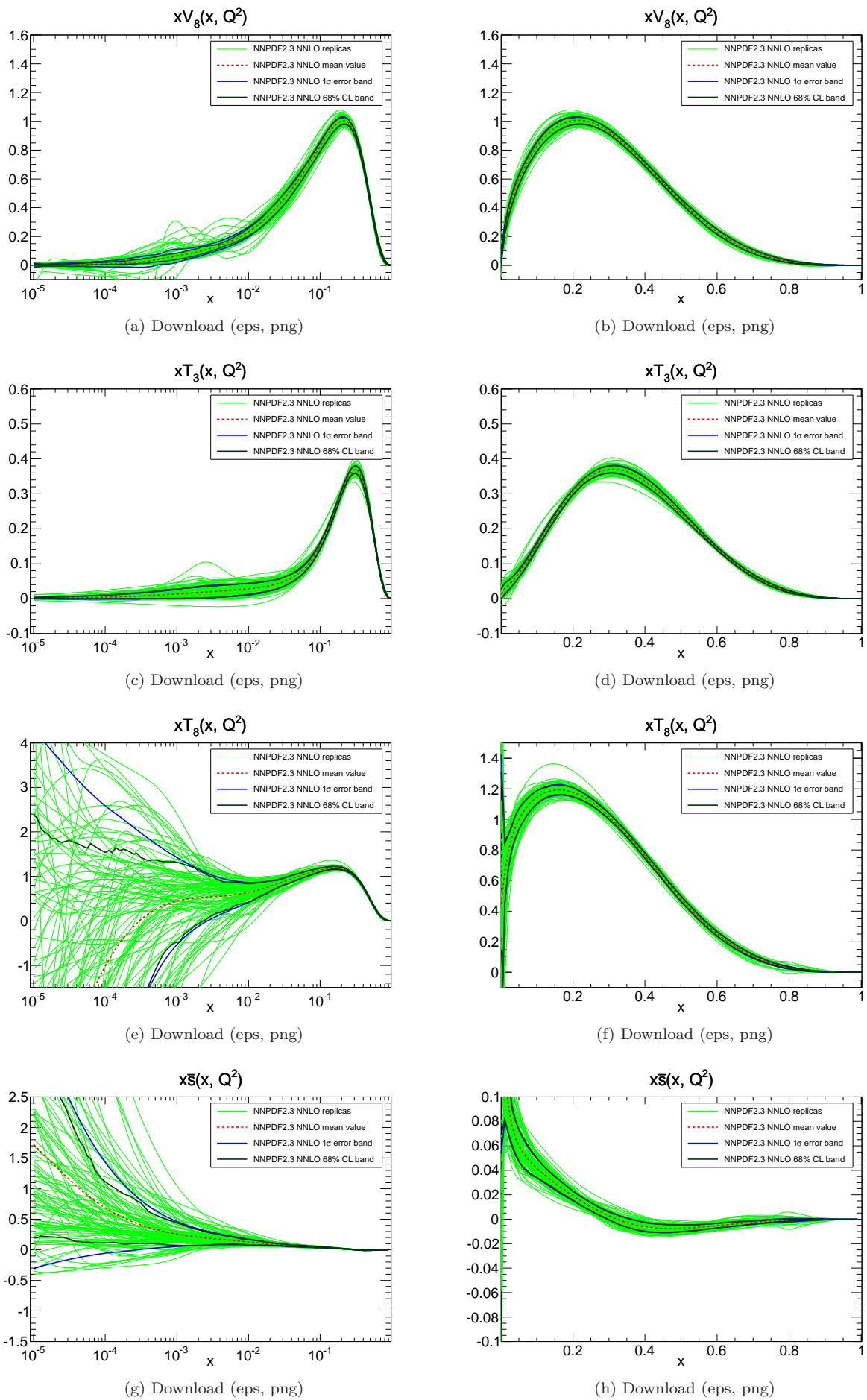
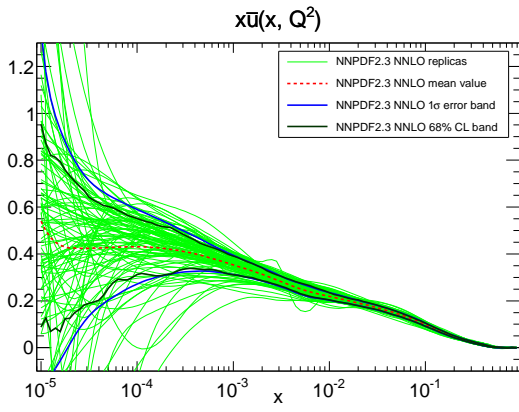
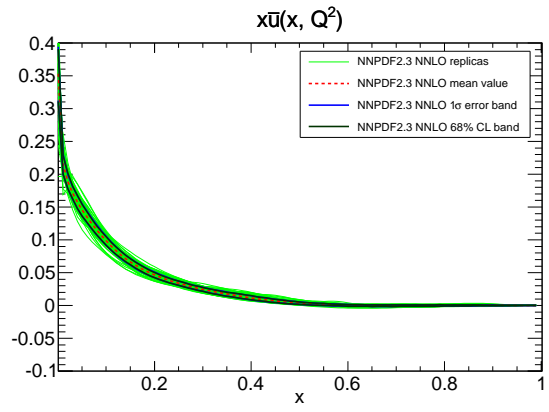


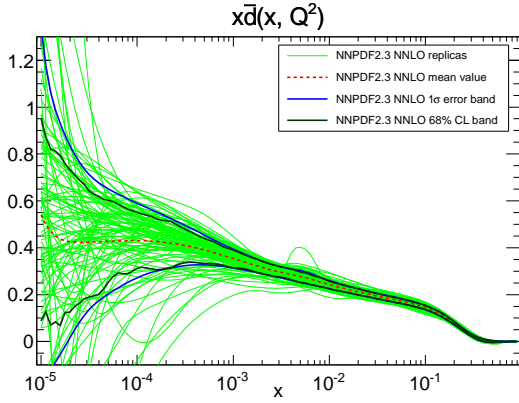
Figure 21



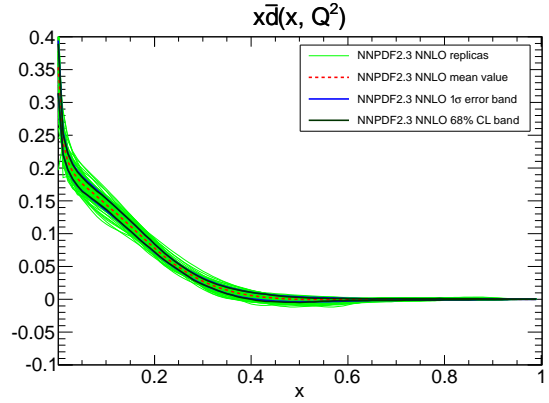
(a) Download (eps, png)



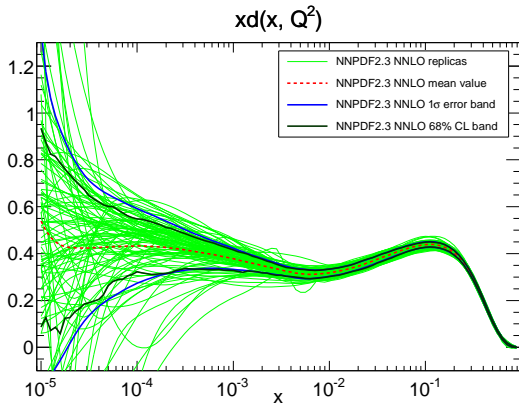
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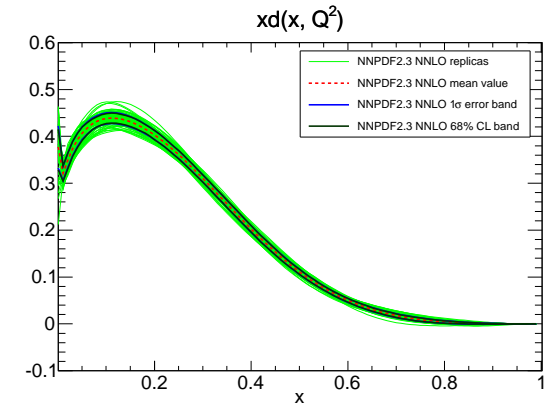
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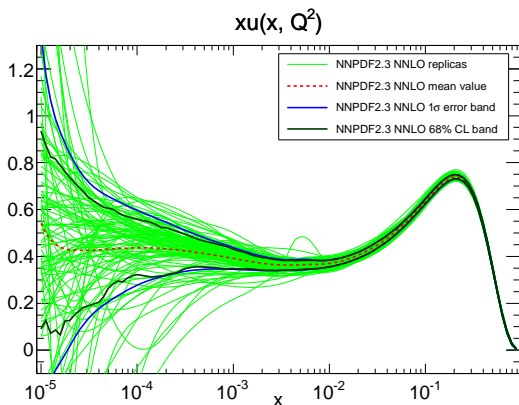
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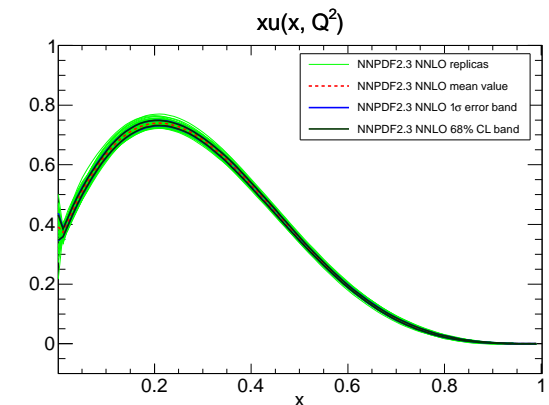
(e) Download (eps, png)



(f) Download (eps, png)

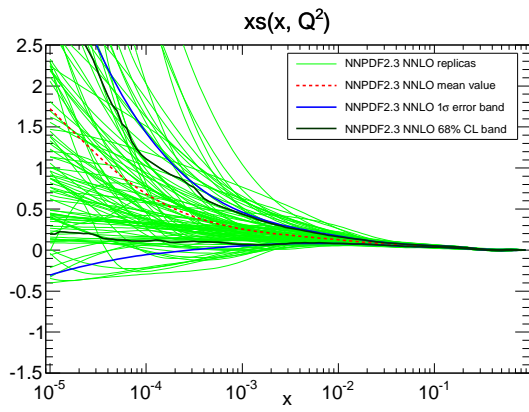


(g) Download (eps, png)

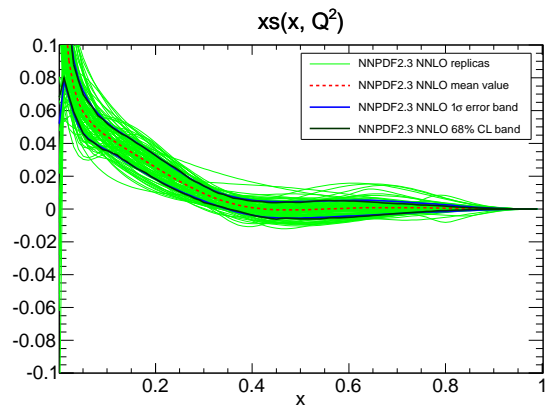


(h) Download (eps, png)

Figure 22



(a) Download (eps, png)



(b) Download (eps, png)

Figure 23

3.3 NNPDF2.3 noLHC NLO vs NNPDF2.1 NLO

3.3.1 Evolution basis

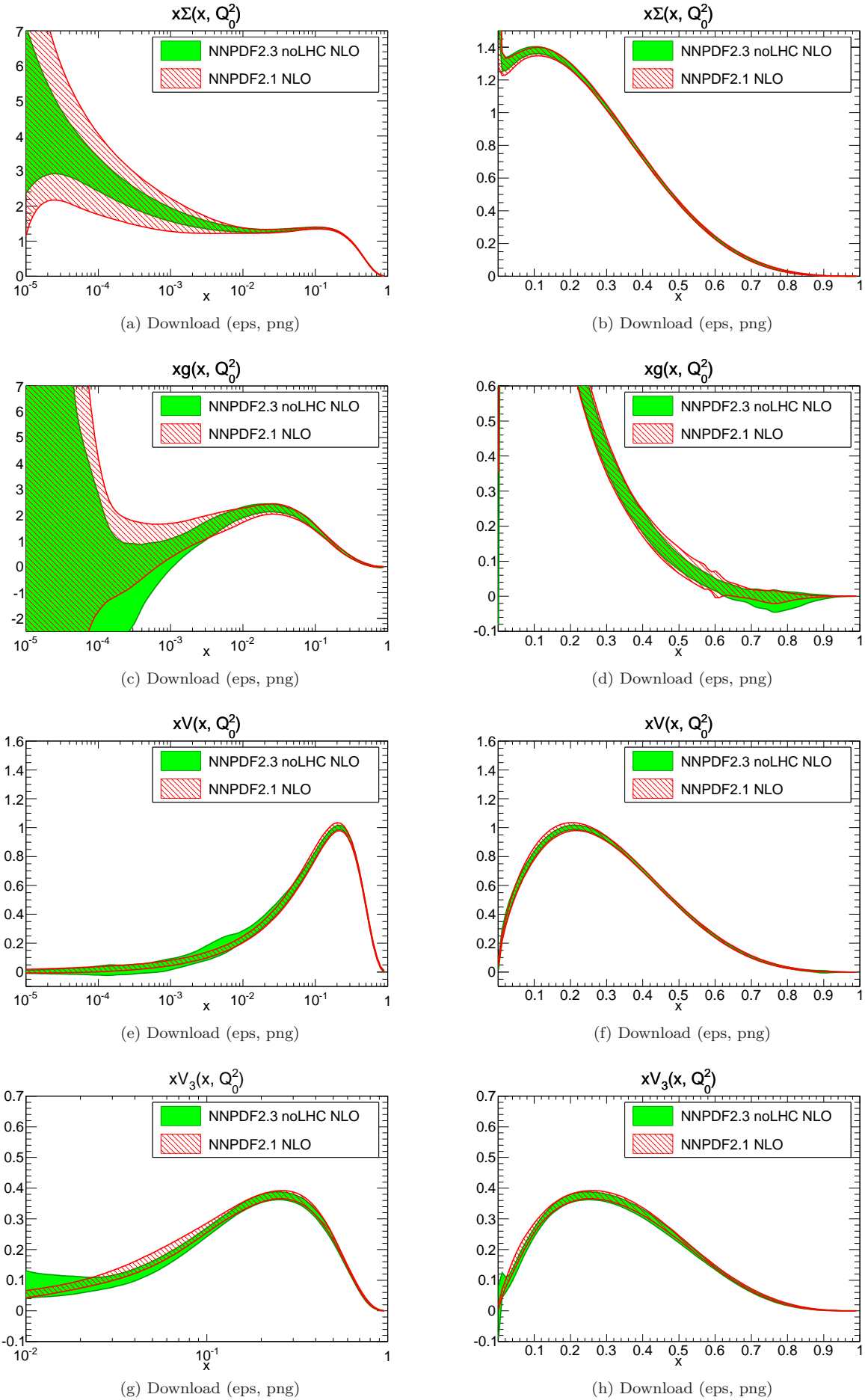
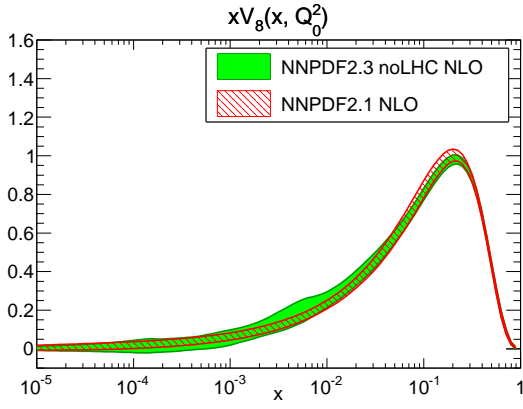
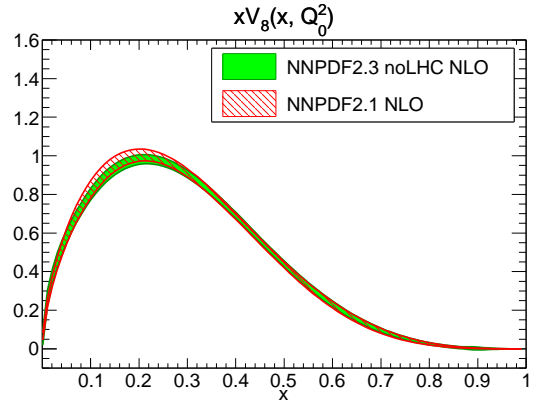


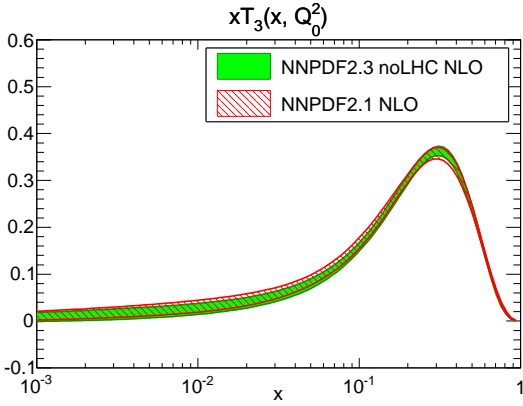
Figure 24



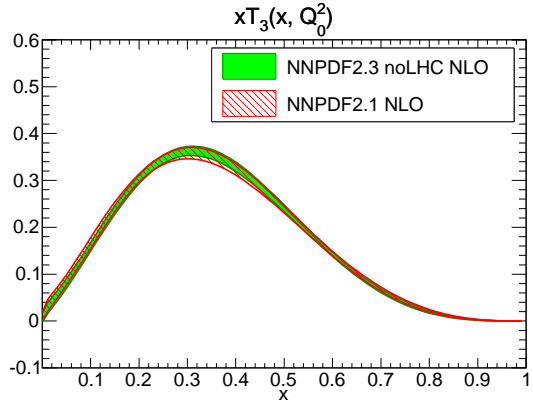
(a) Download (eps, png)



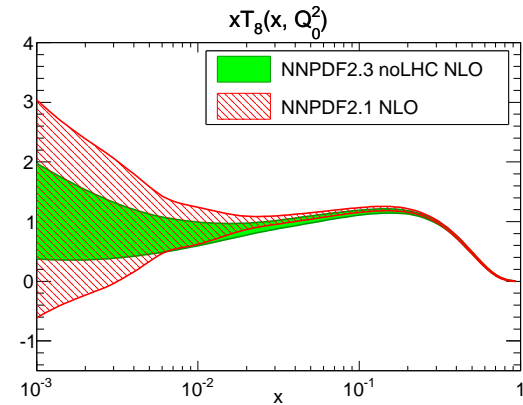
(b) Download (eps, png)



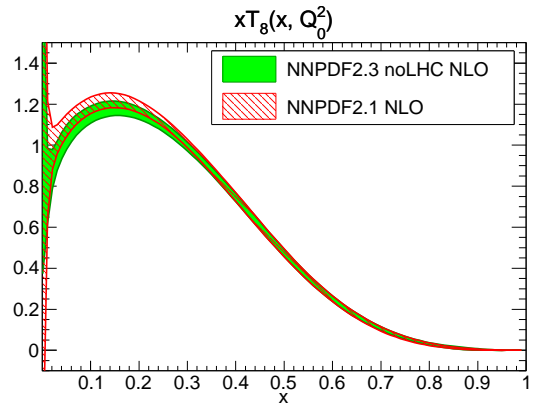
(c) Download (eps, png)



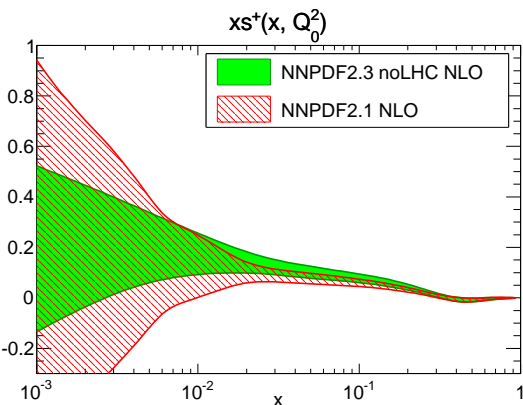
(d) Download (eps, png)



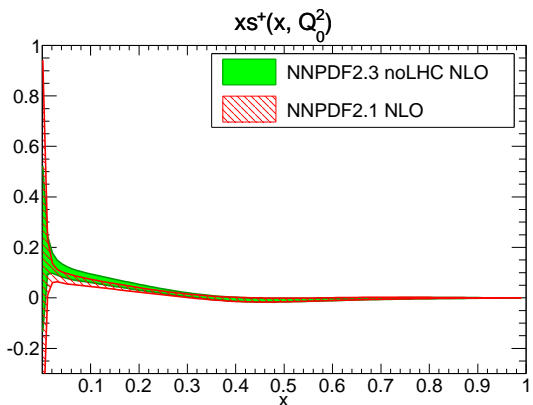
(e) Download (eps, png)



(f) Download (eps, png)

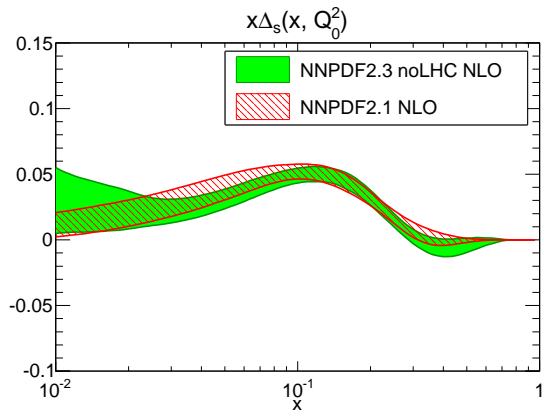


(g) Download (eps, png)

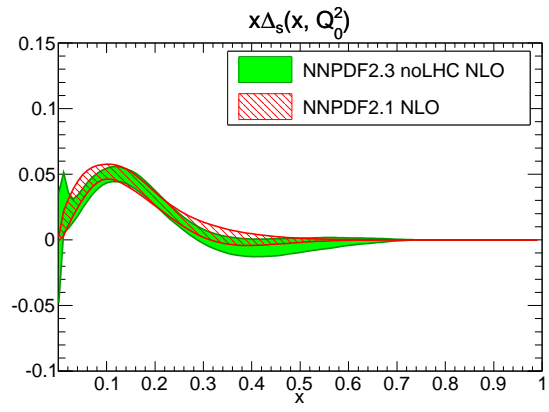


(h) Download (eps, png)

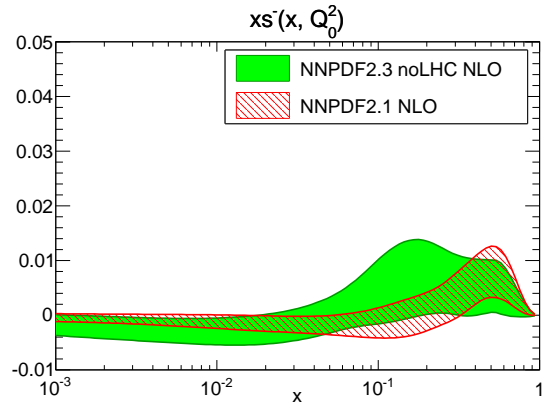
Figure 25



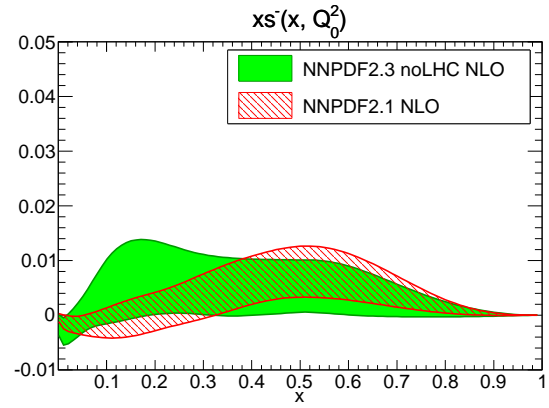
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 26

3.3.2 Flavor basis

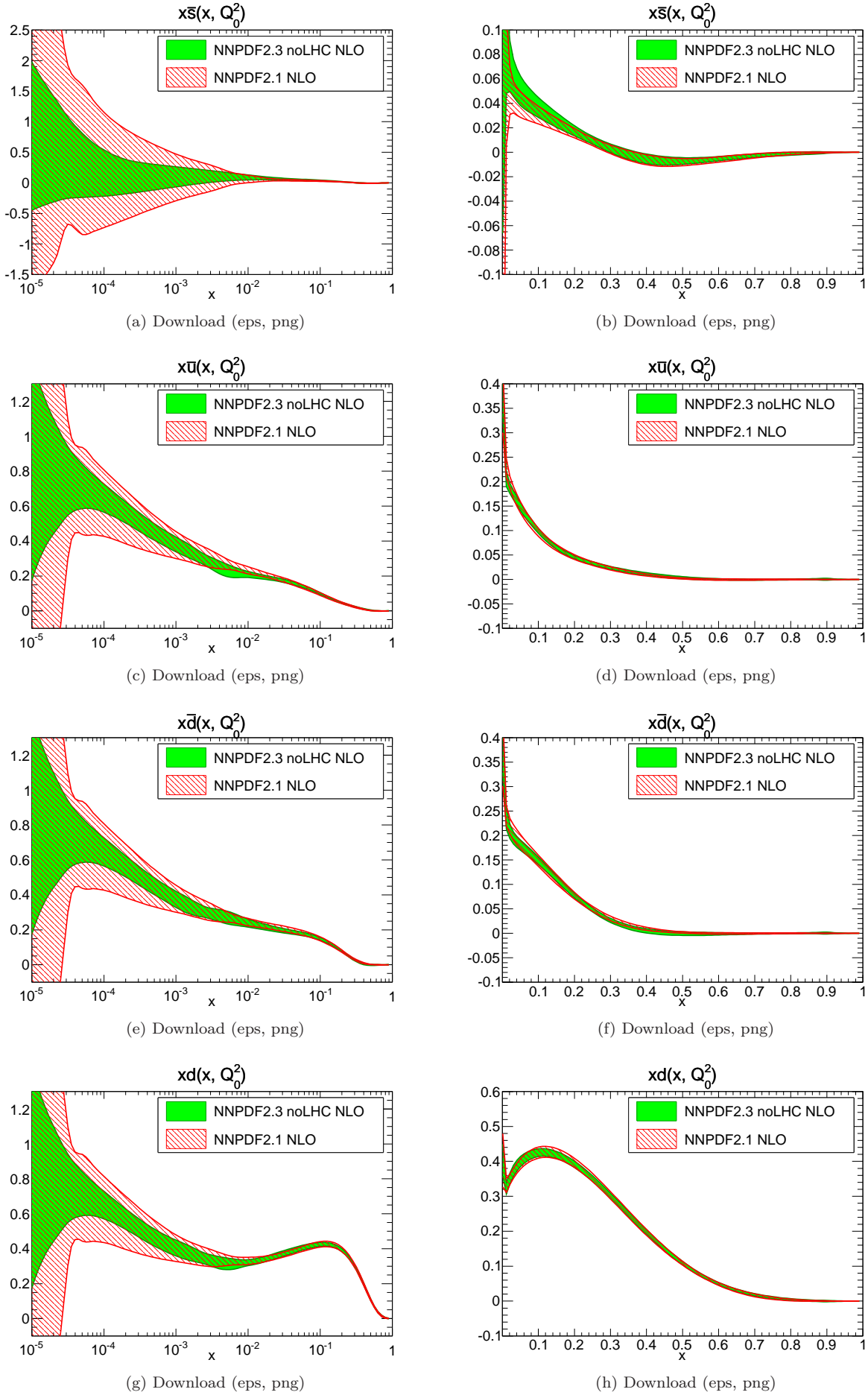
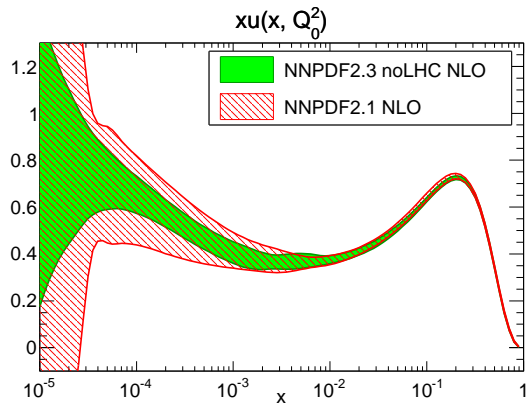
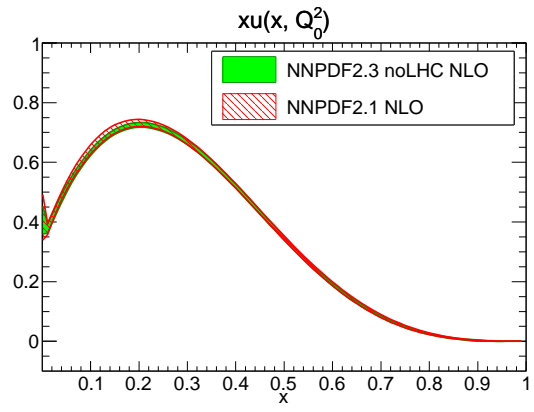


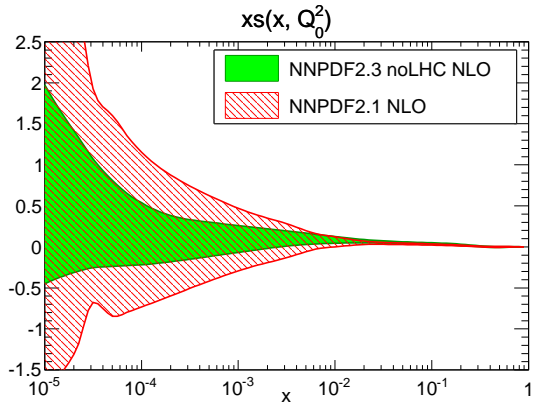
Figure 27



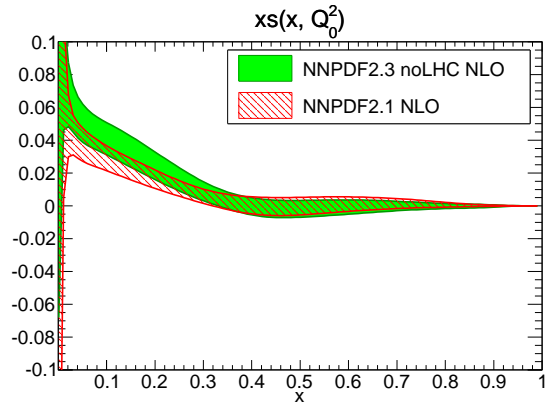
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 28

3.3.3 Replicas NNPDF2.3 noLHC NLO at $Q^2 = 2 \text{ GeV}^2$

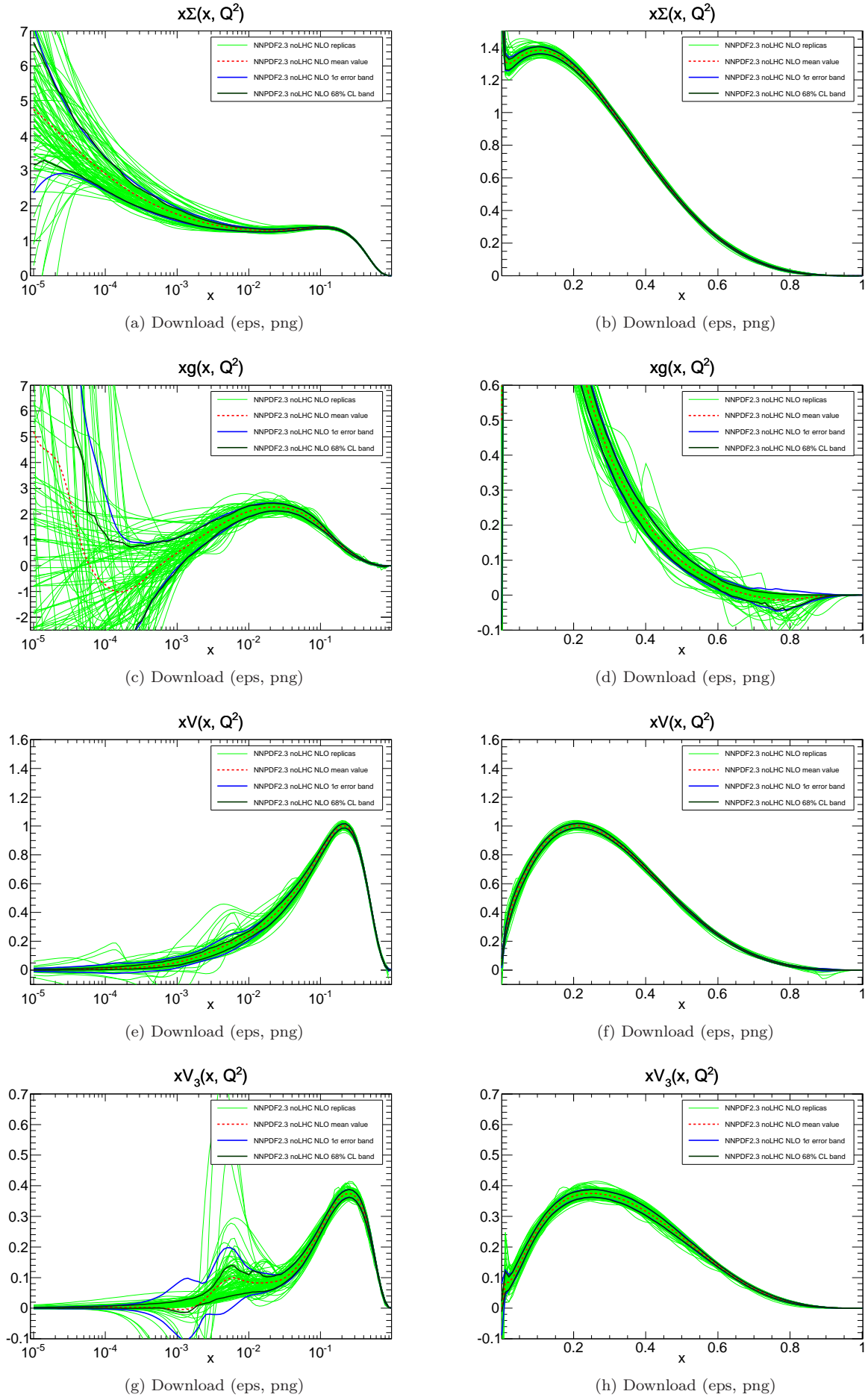


Figure 29

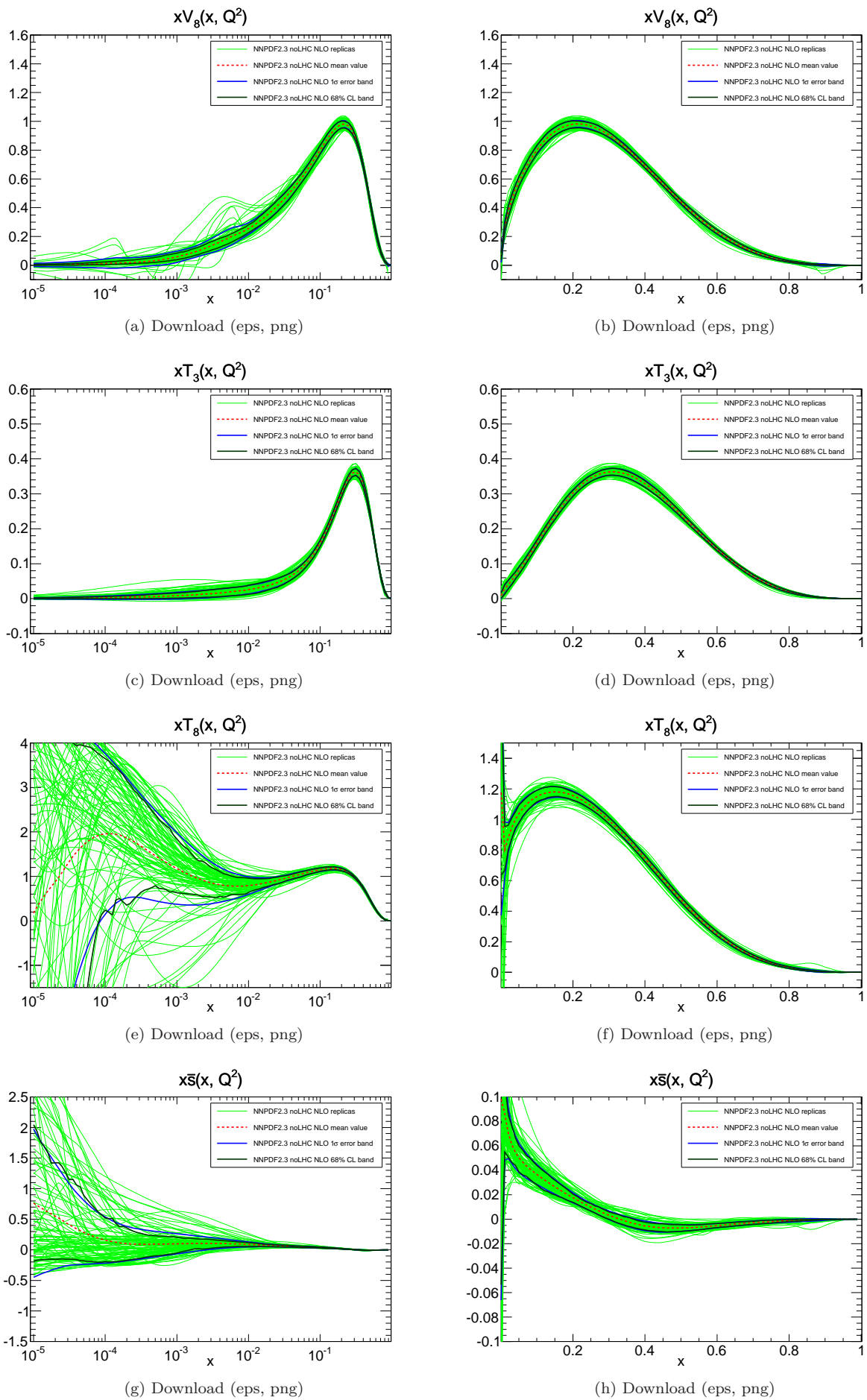
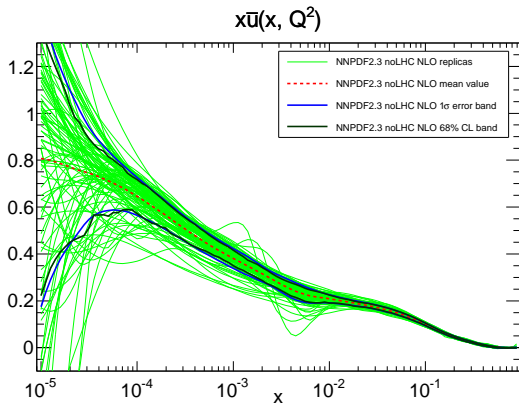
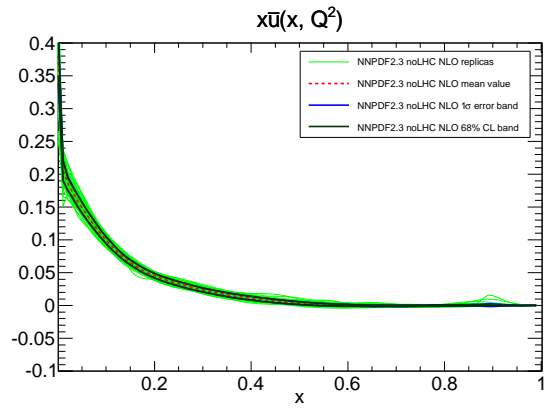


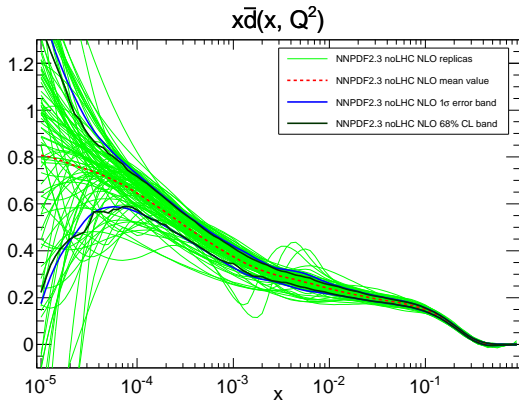
Figure 30



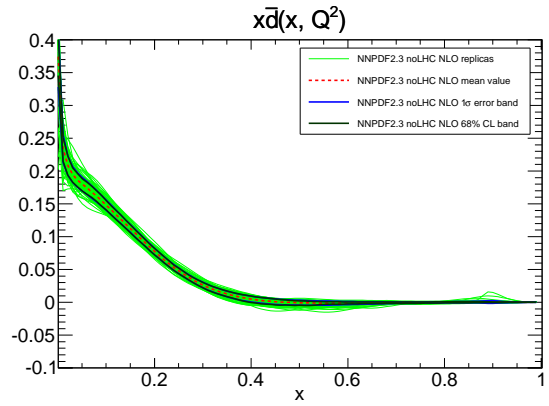
(a) Download (eps, png)



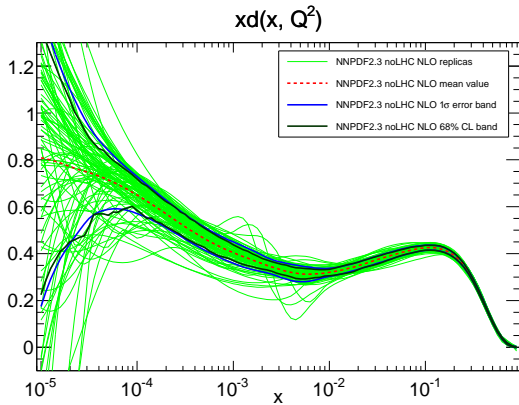
(b) Download (eps, png)



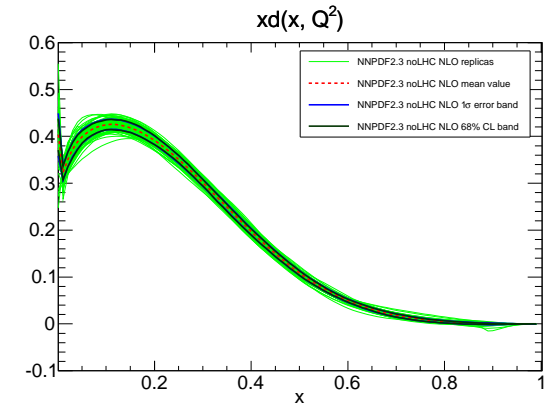
(c) Download (eps, png)



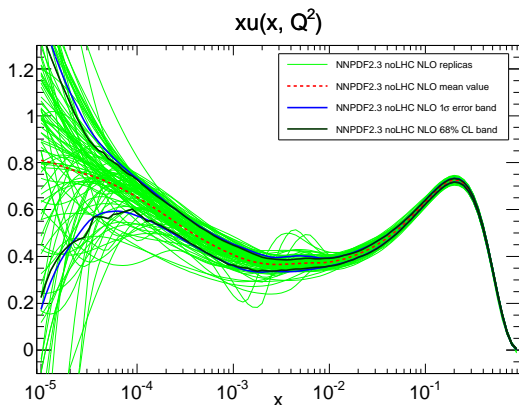
(d) Download (eps, png)



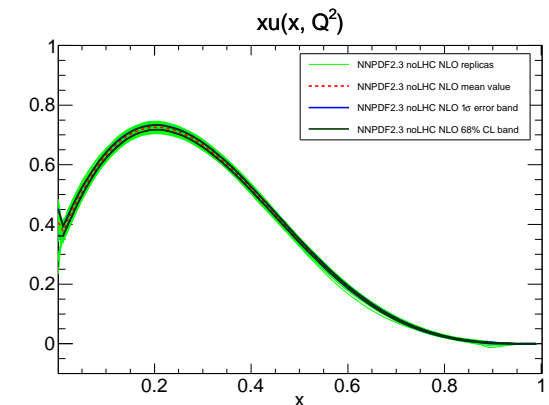
(e) Download (eps, png)



(f) Download (eps, png)

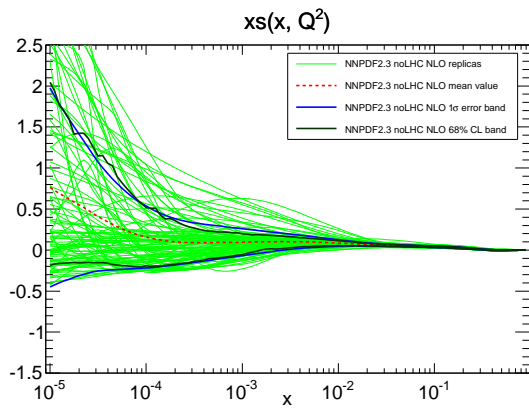


(g) Download (eps, png)

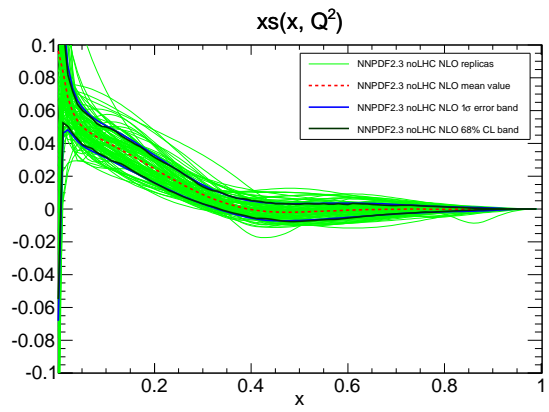


(h) Download (eps, png)

Figure 31



(a) Download (eps, png)



(b) Download (eps, png)

Figure 32

3.4 NNPDF2.3 noLHC NNLO vs NNPDF2.1 NNLO

3.4.1 Evolution basis

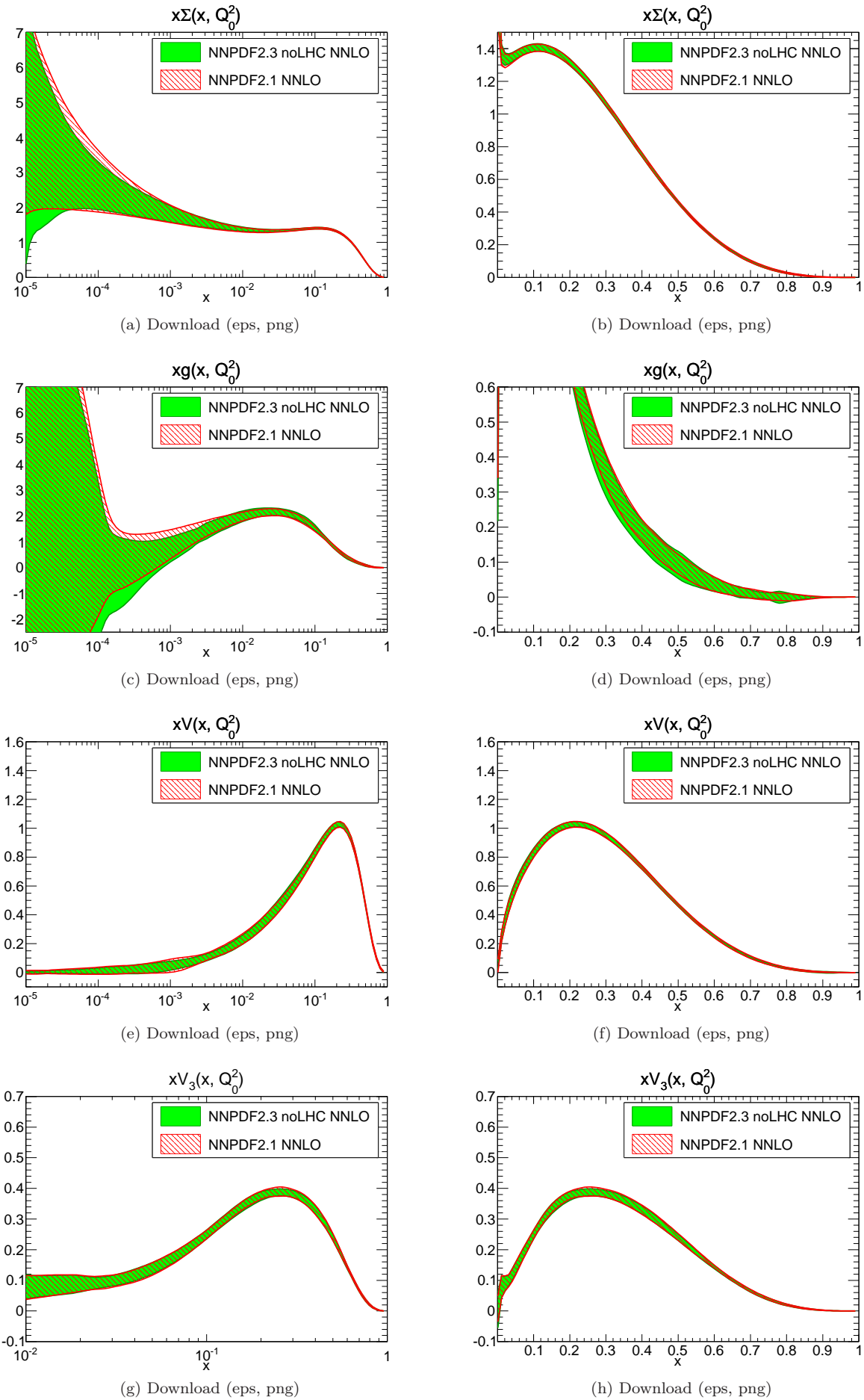
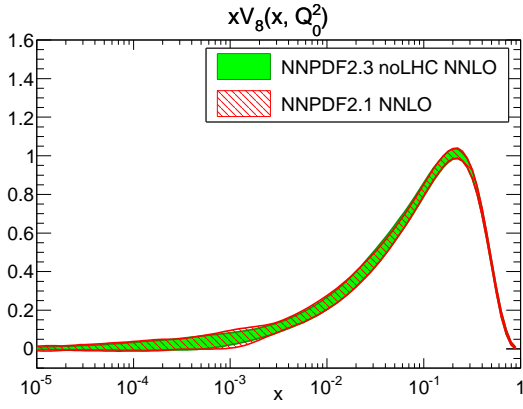
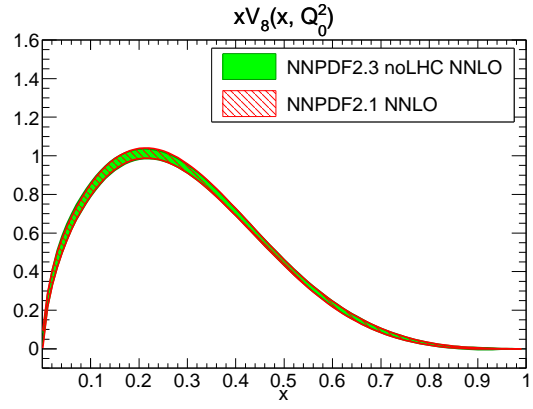


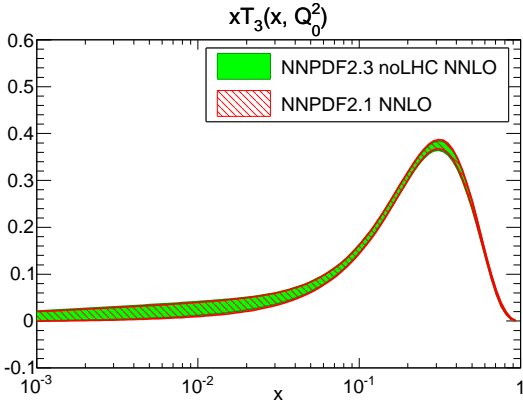
Figure 33



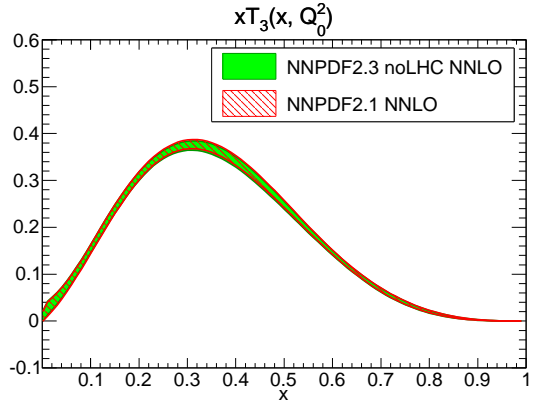
(a) Download (eps, png)



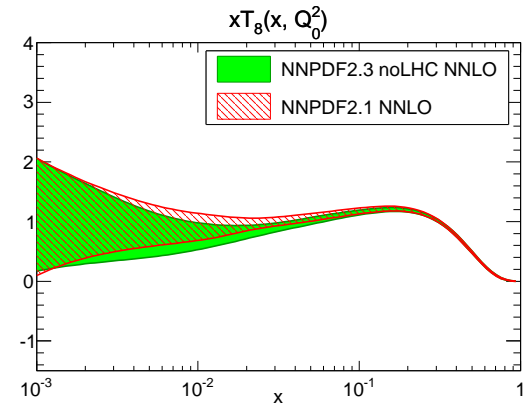
(b) Download (eps, png)



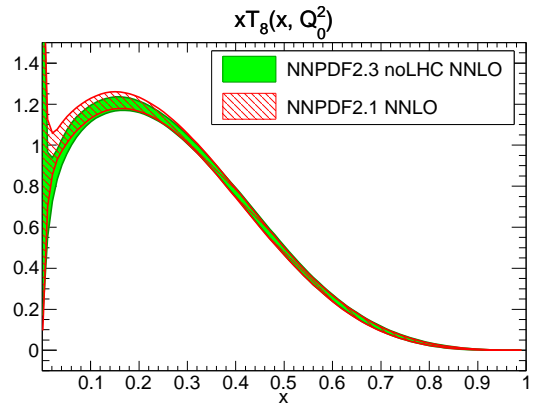
(c) Download (eps, png)



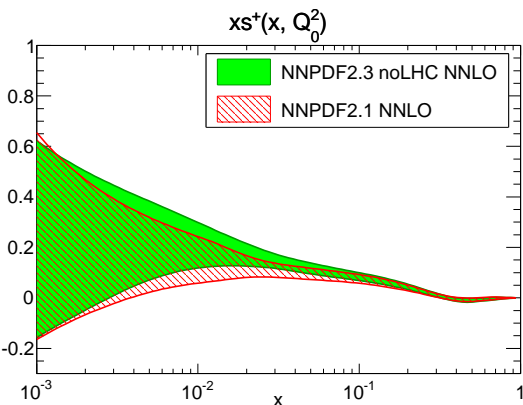
(d) Download (eps, png)



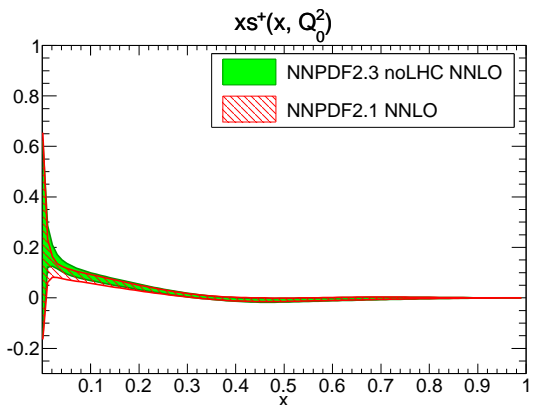
(e) Download (eps, png)



(f) Download (eps, png)

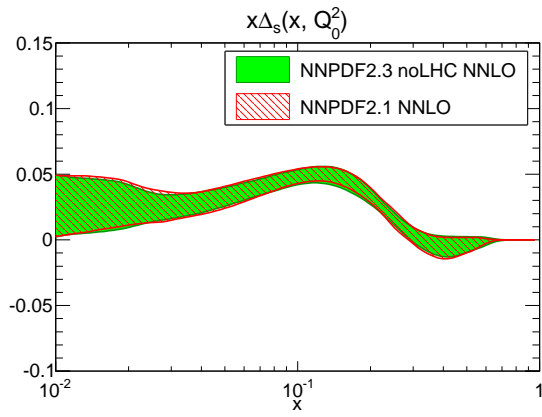


(g) Download (eps, png)

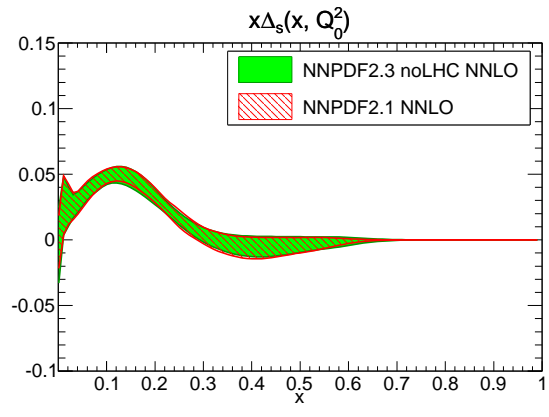


(h) Download (eps, png)

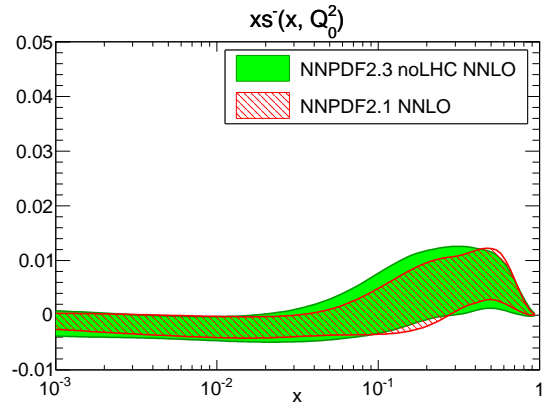
Figure 34



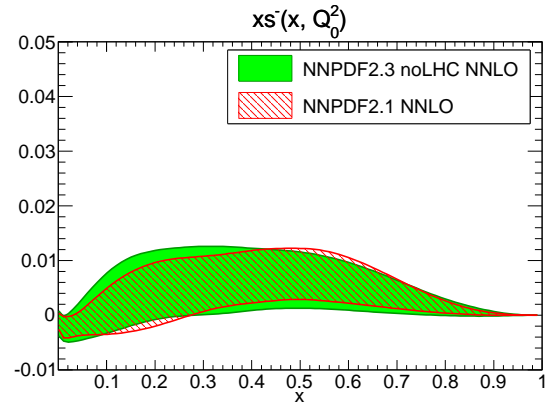
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 35

3.4.2 Flavor basis

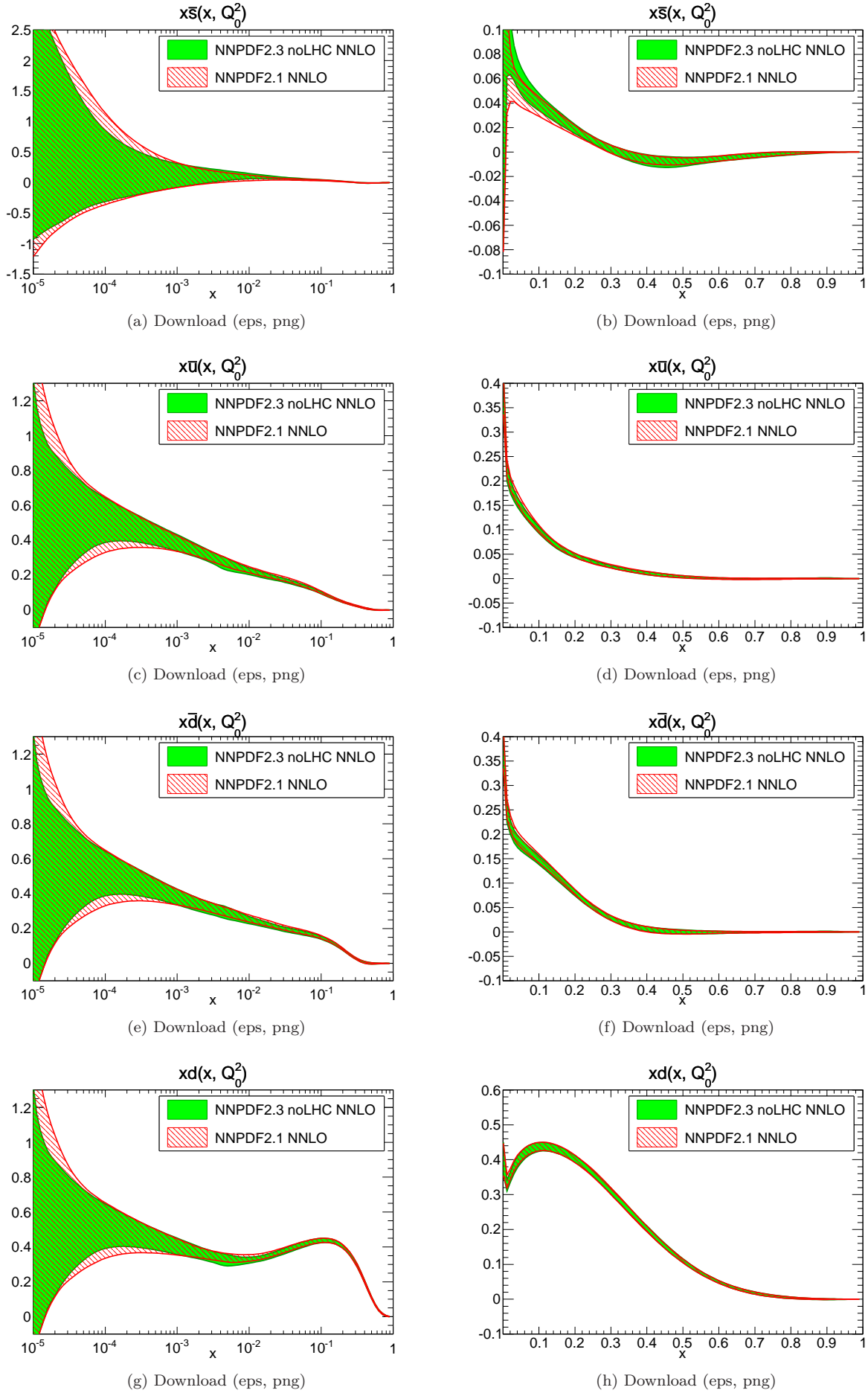
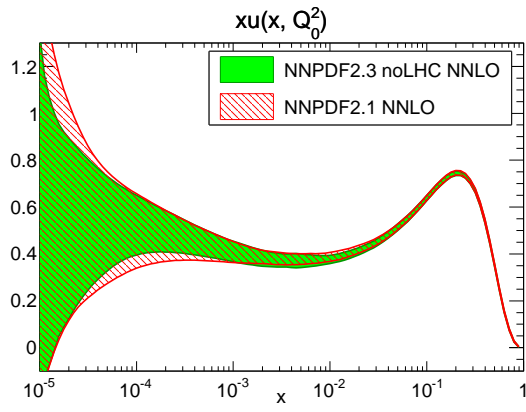
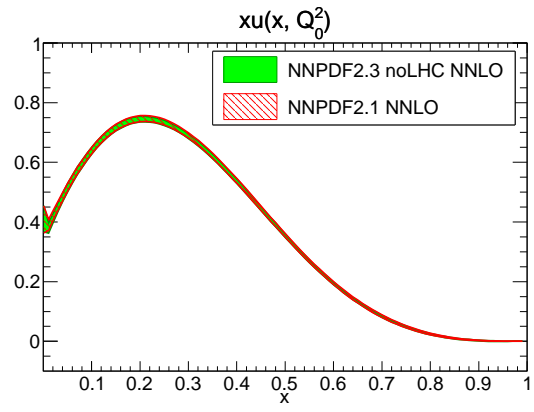


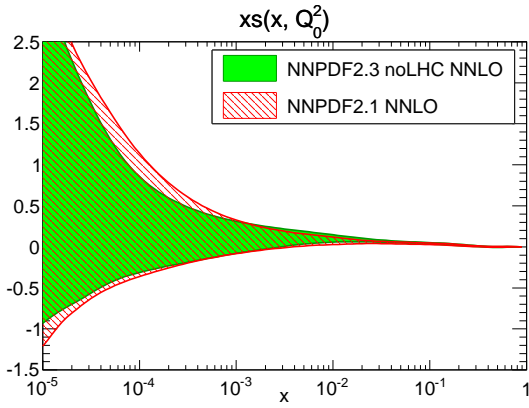
Figure 36



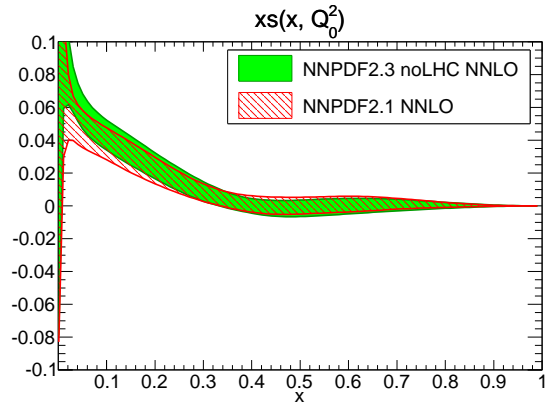
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 37

3.4.3 Replicas NNPDF2.3 noLHC NNLO at $Q^2 = 2 \text{ GeV}^2$

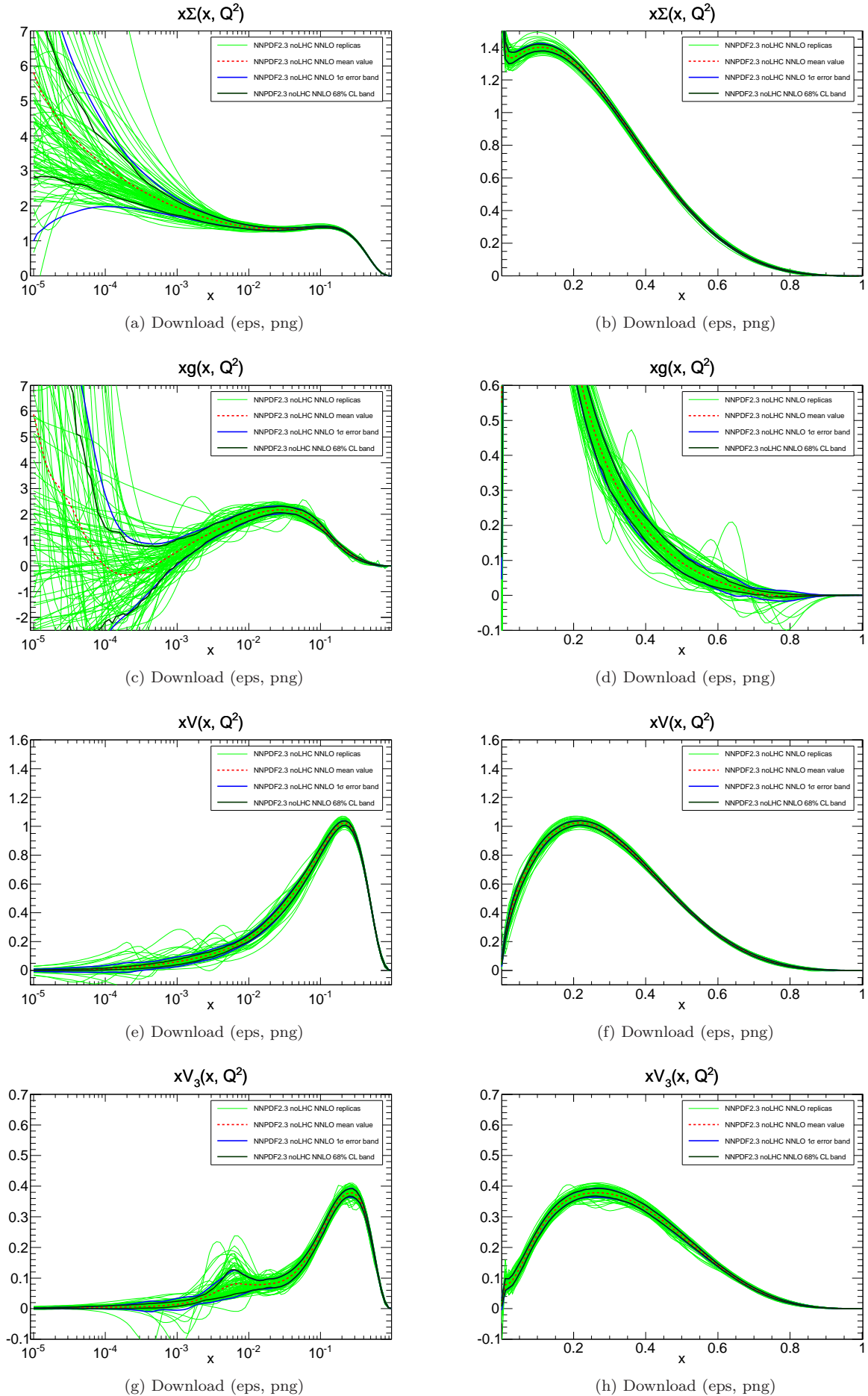


Figure 38

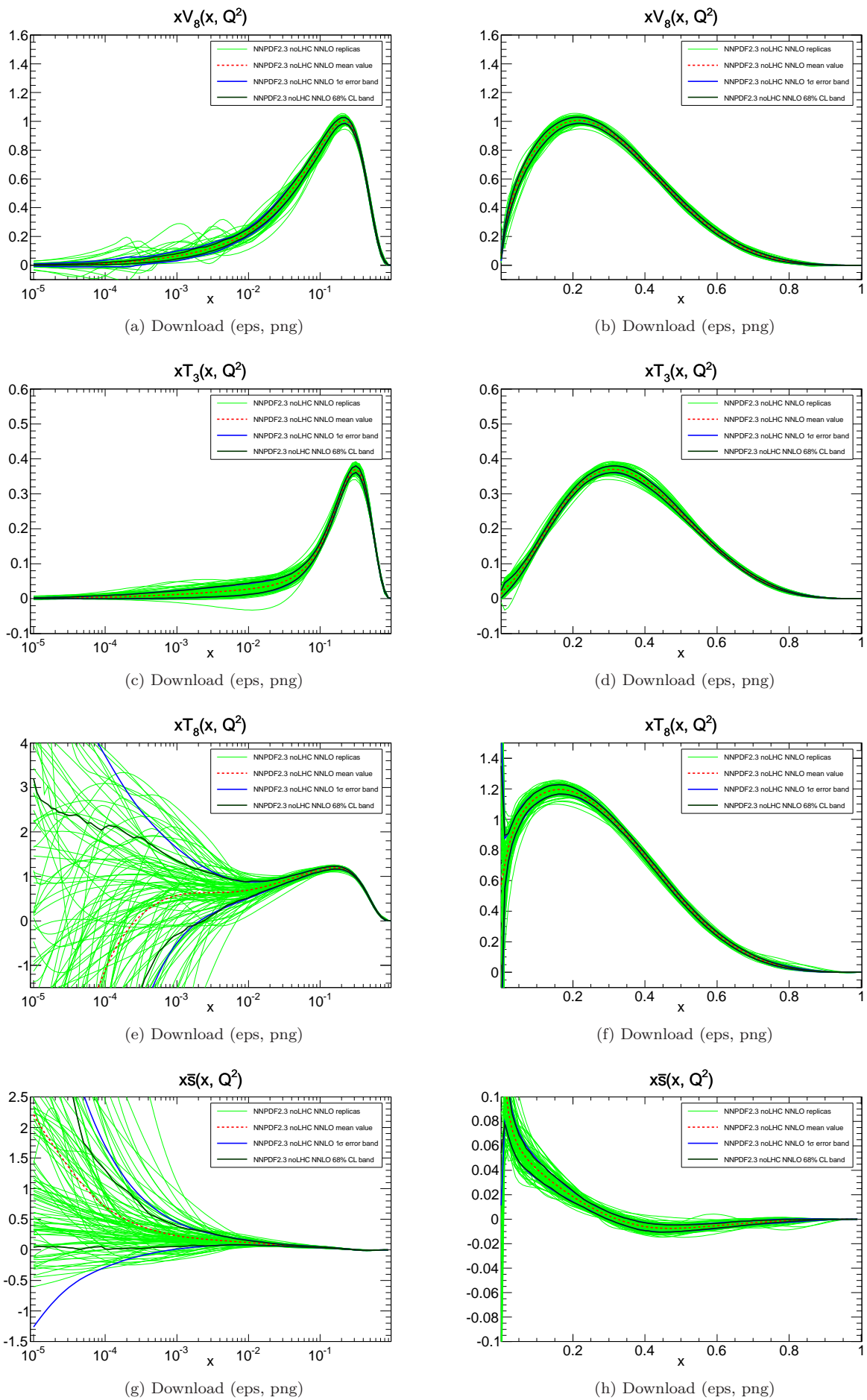
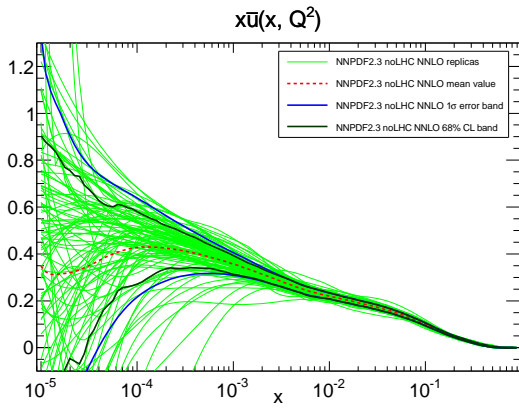
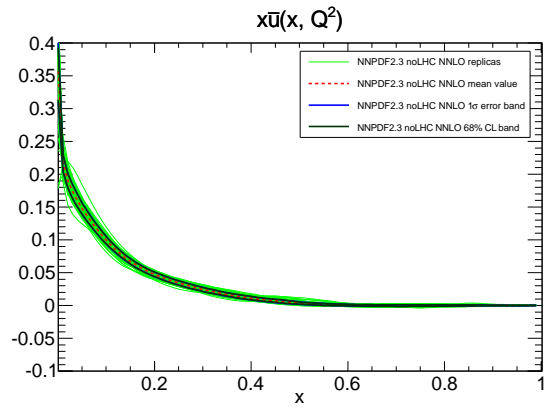


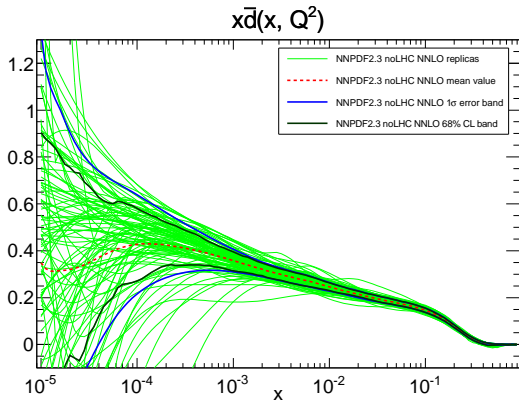
Figure 39



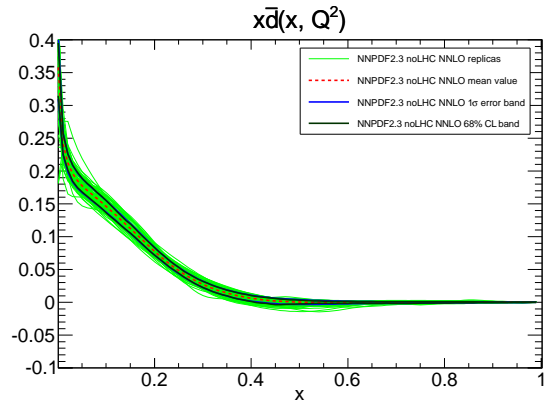
(a) Download (eps, png)



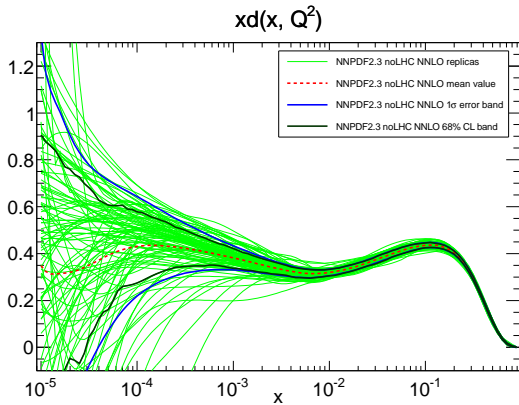
(b) Download (eps, png)



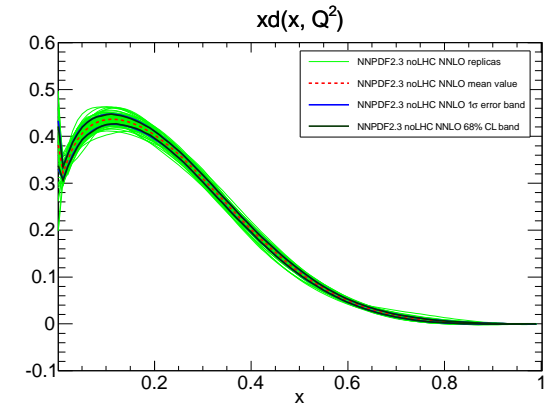
(c) Download (eps, png)



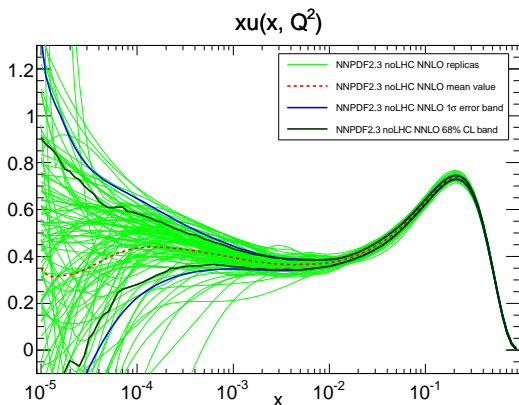
(d) Download (eps, png)



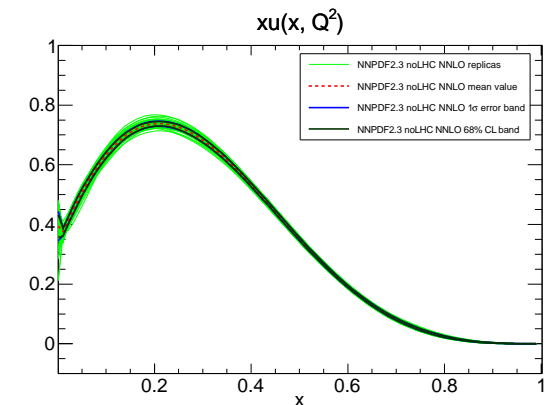
(e) Download (eps, png)



(f) Download (eps, png)

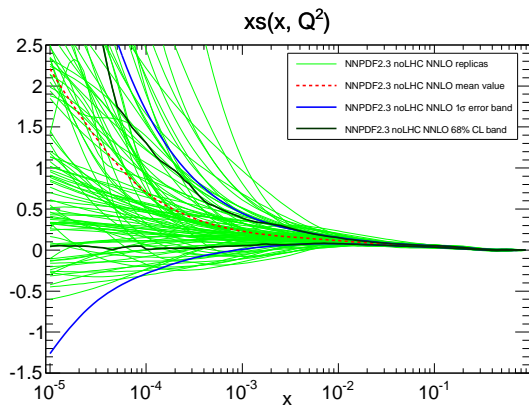


(g) Download (eps, png)

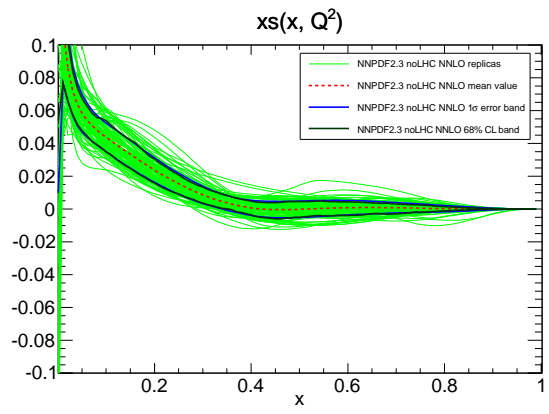


(h) Download (eps, png)

Figure 40



(a) Download (eps, png)



(b) Download (eps, png)

Figure 41

3.5 NNPDF2.3 NLO vs NNPDF2.3 noLHC NLO

3.5.1 Evolution basis

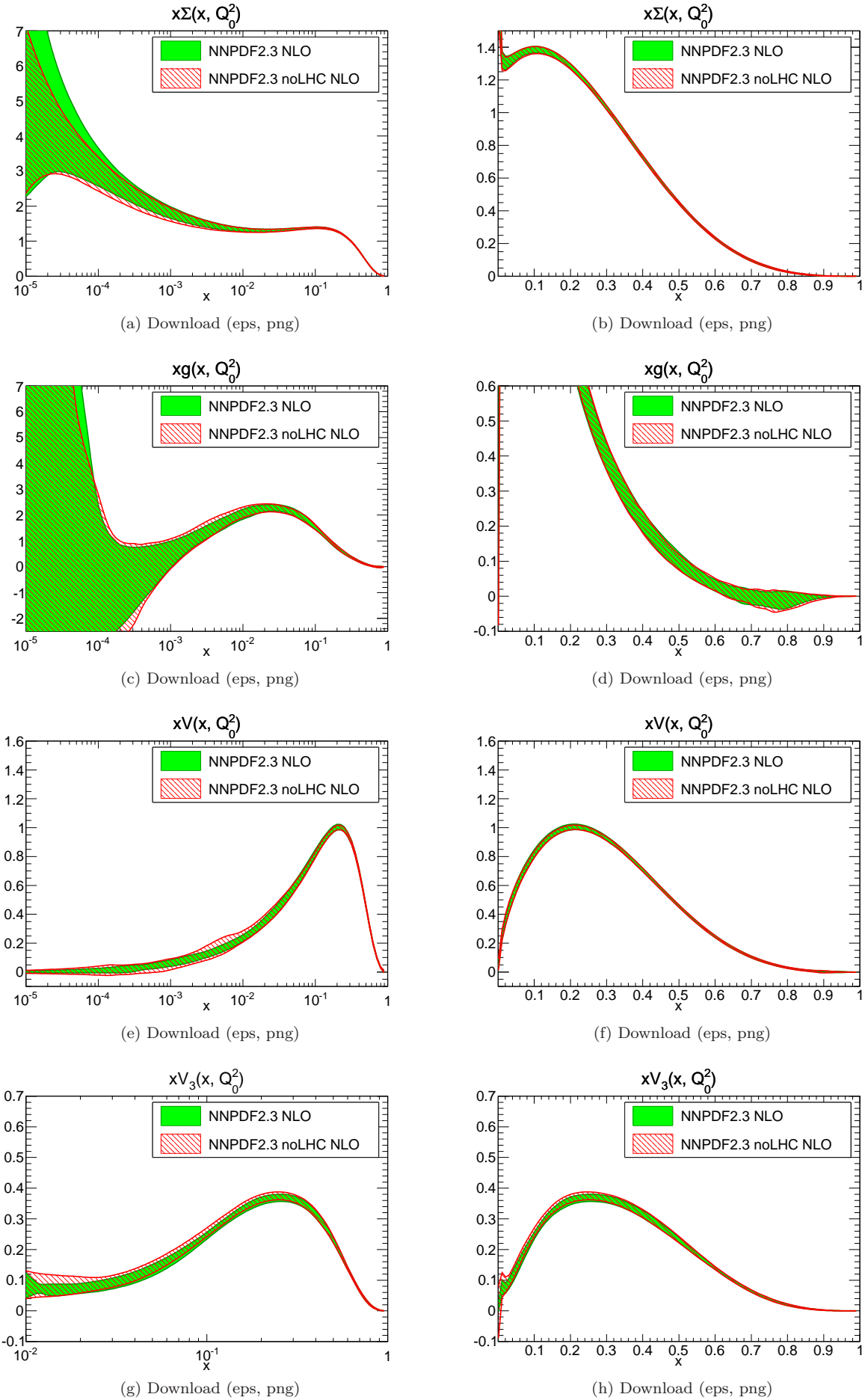
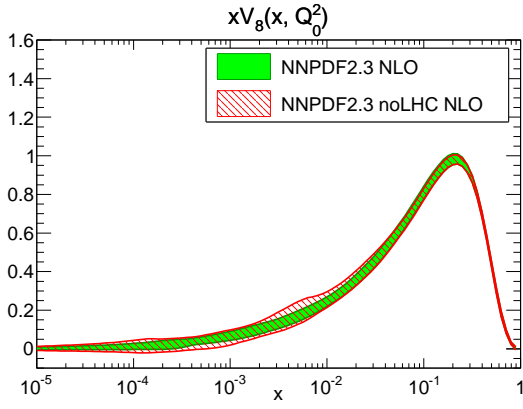
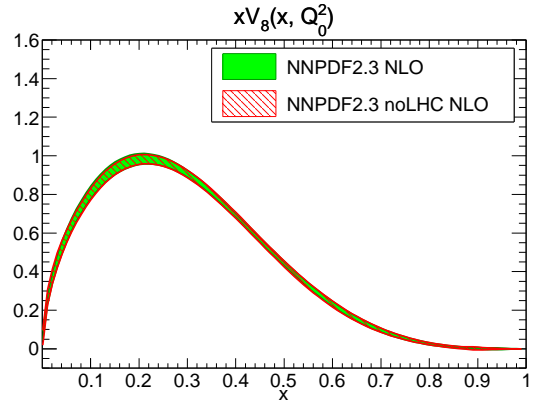


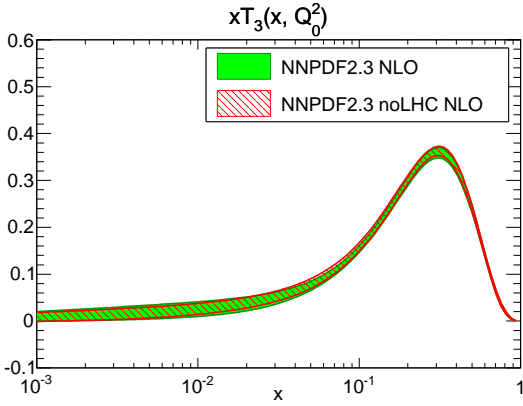
Figure 42



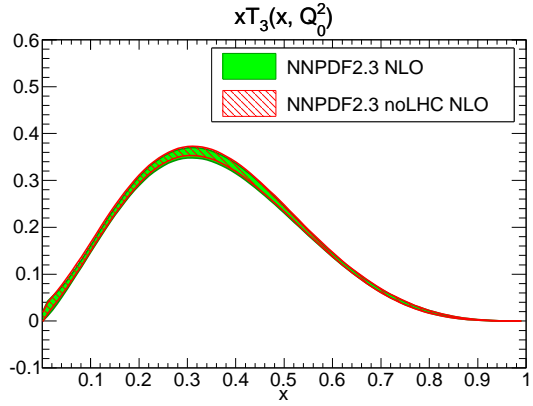
(a) Download (eps, png)



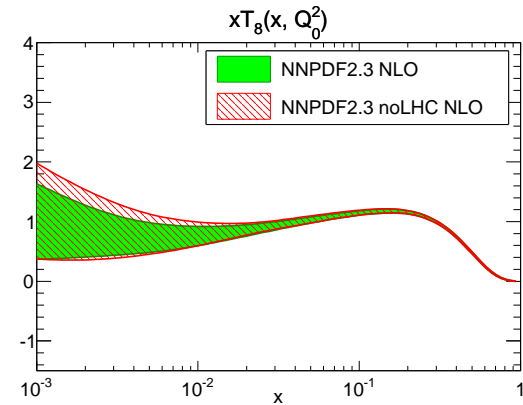
(b) Download (eps, png)



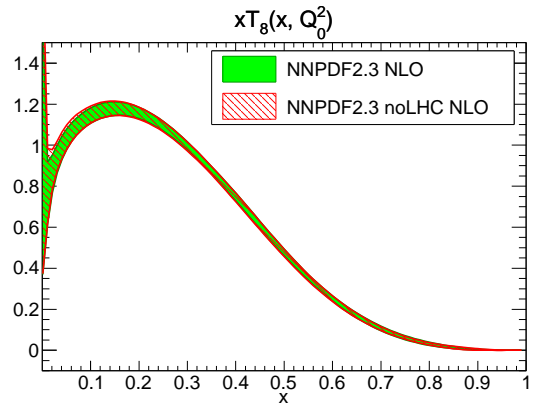
(c) Download (eps, png)



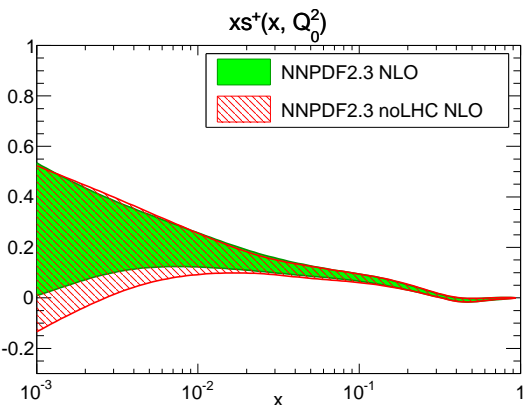
(d) Download (eps, png)



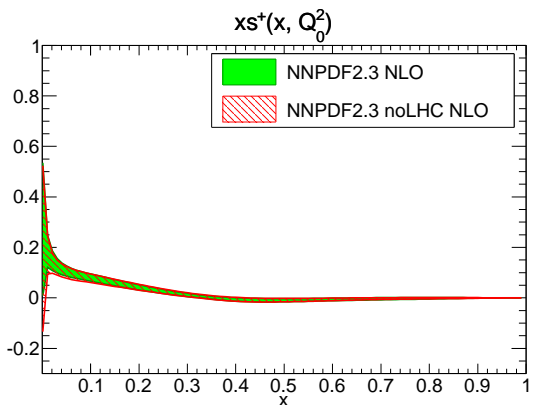
(e) Download (eps, png)



(f) Download (eps, png)



(g) Download (eps, png)



(h) Download (eps, png)

Figure 43

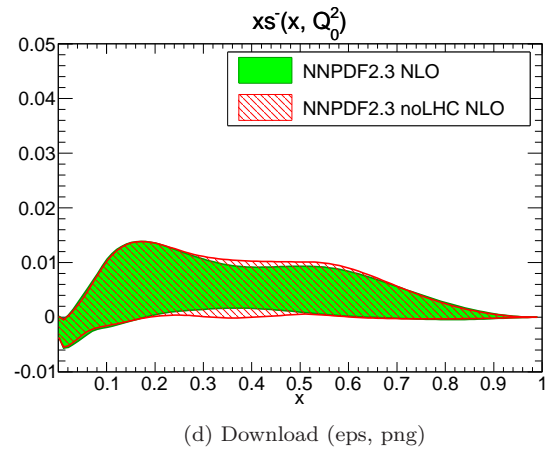
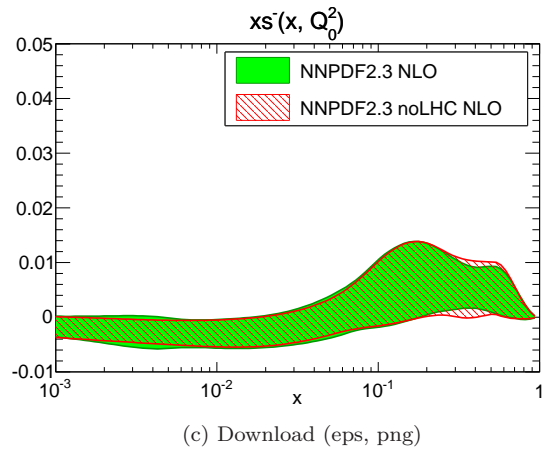
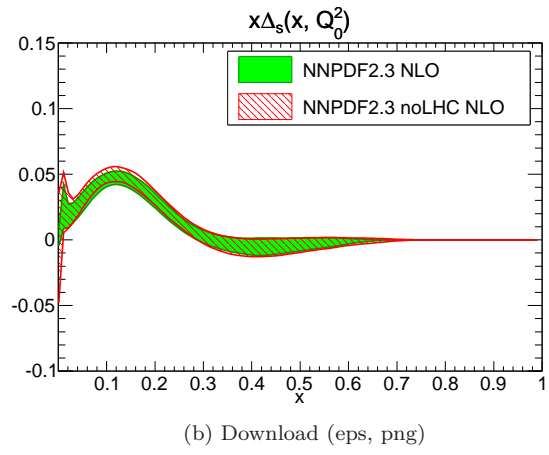
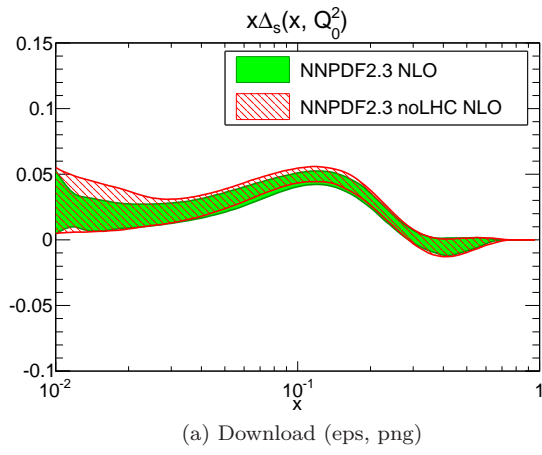


Figure 44

3.5.2 Flavor basis

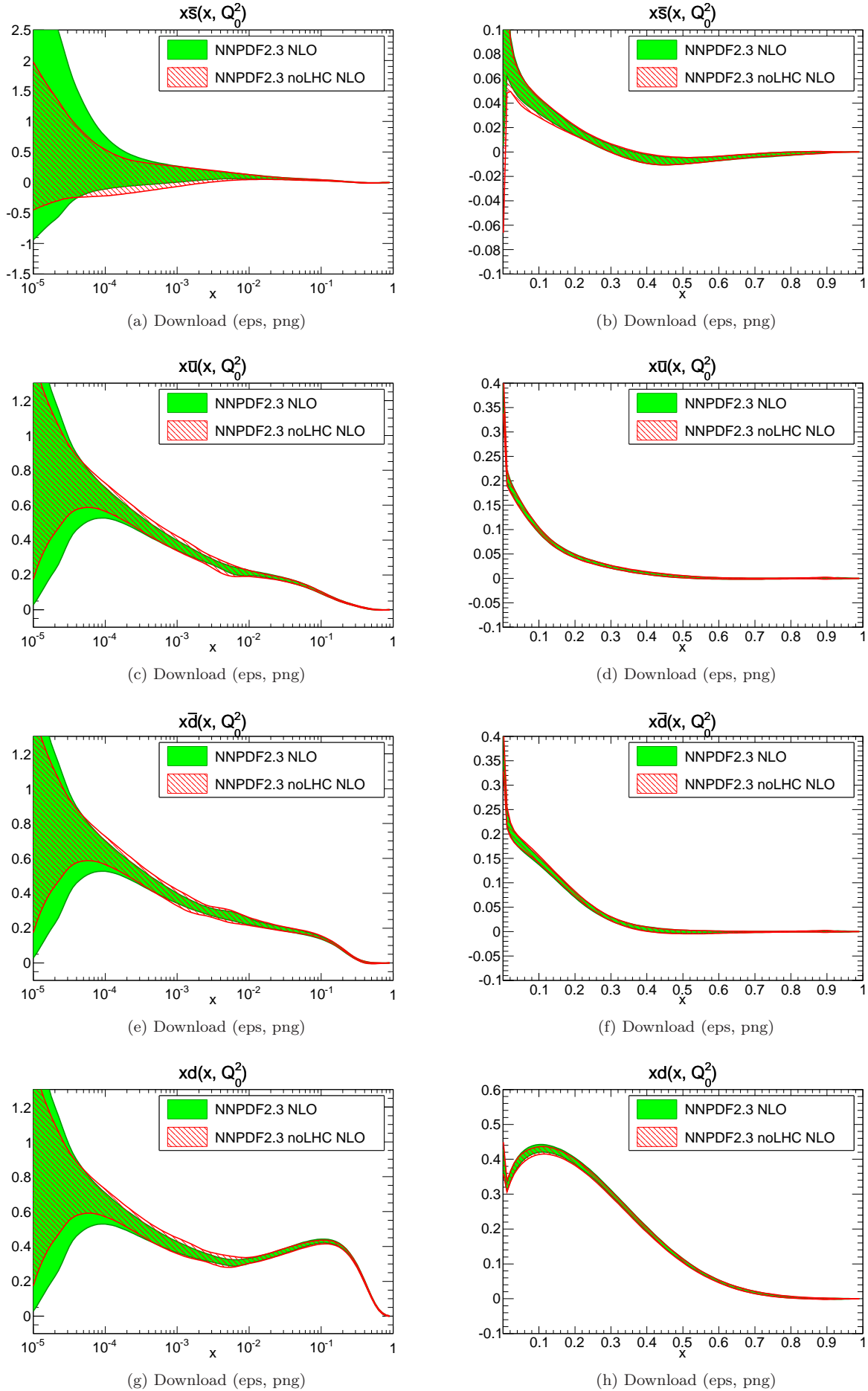
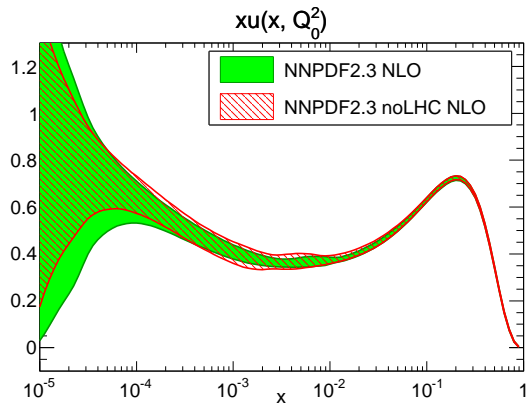
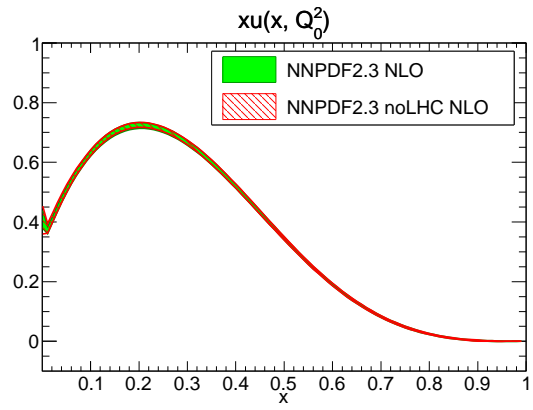


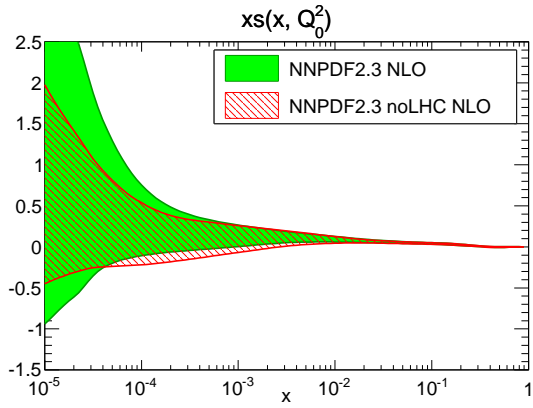
Figure 45



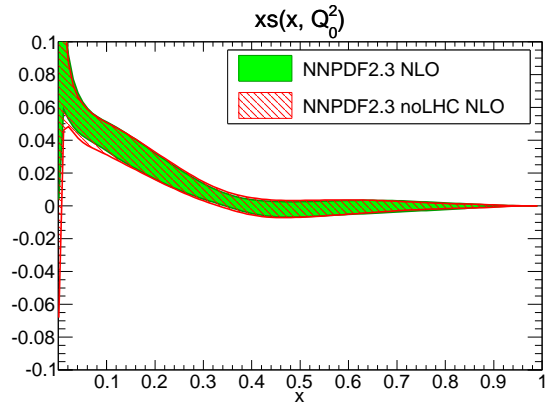
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 46

3.6 NNPDF2.3 NNLO vs NNPDF2.3 noLHC NNLO

3.6.1 Evolution basis

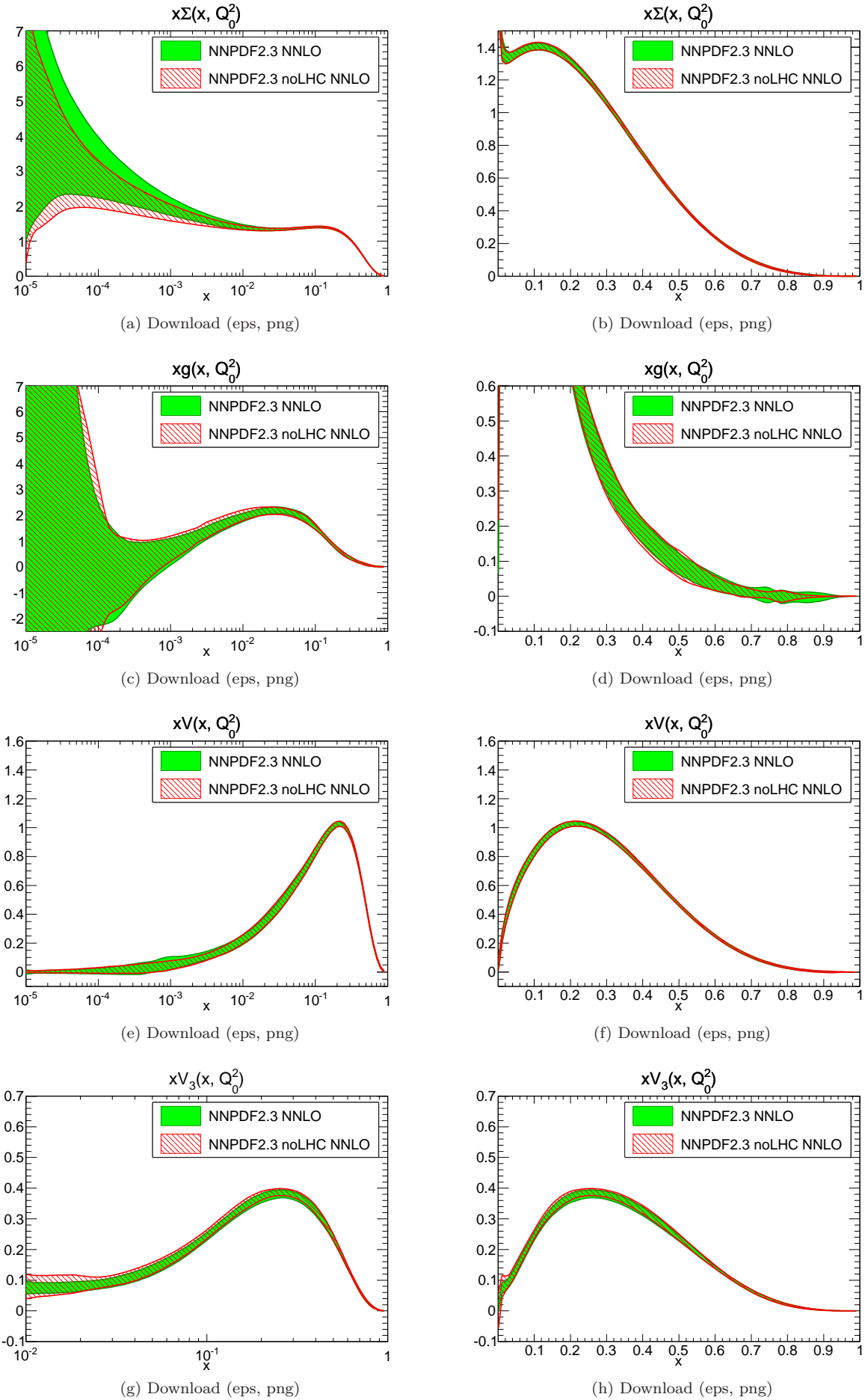
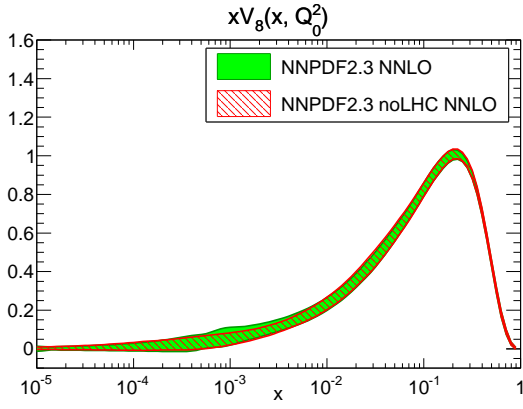
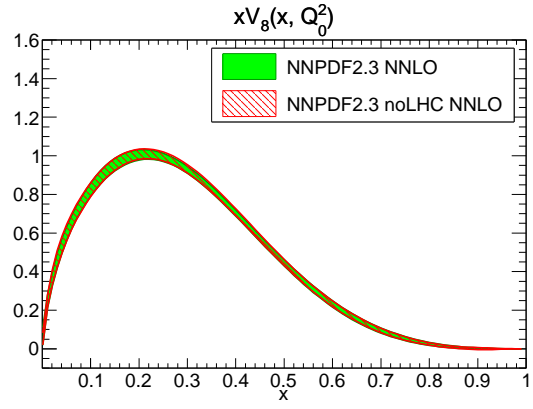


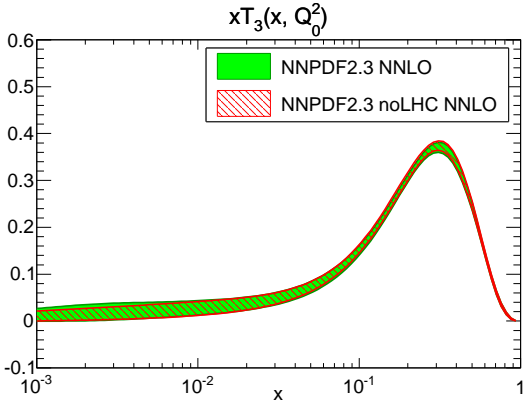
Figure 47



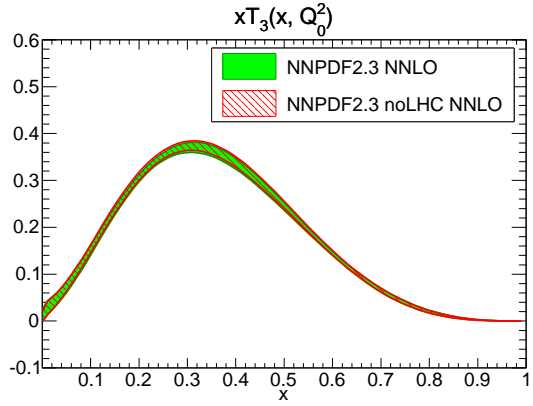
(a) Download (eps, png)



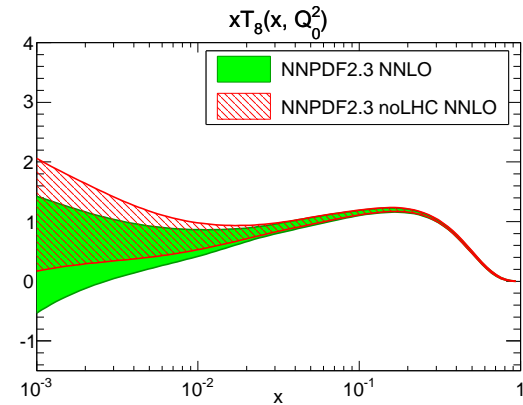
(b) Download (eps, png)



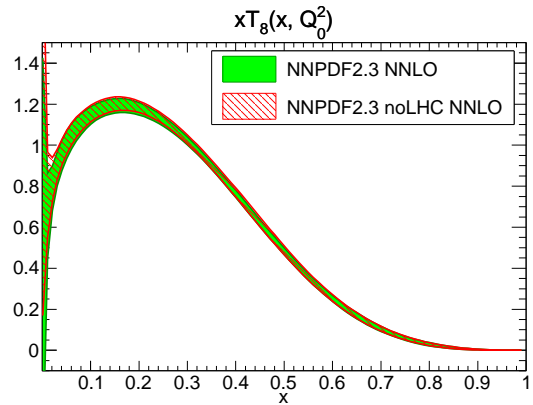
(c) Download (eps, png)



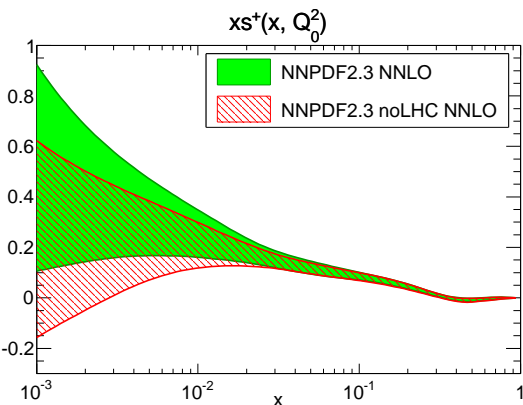
(d) Download (eps, png)



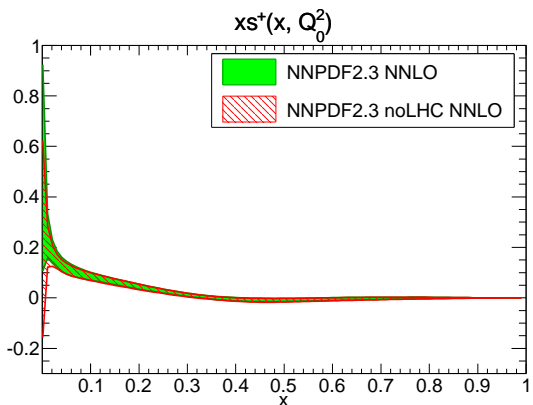
(e) Download (eps, png)



(f) Download (eps, png)

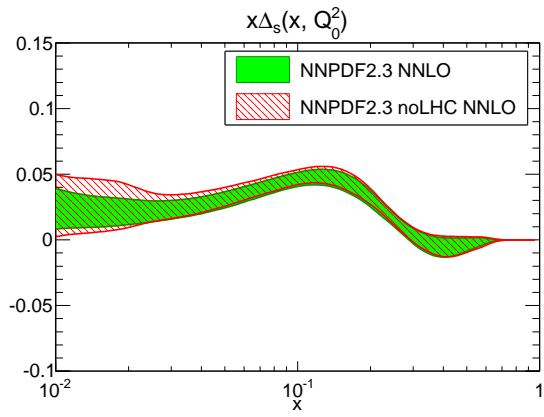


(g) Download (eps, png)

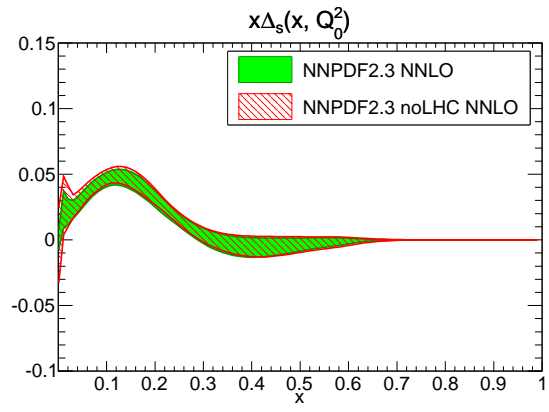


(h) Download (eps, png)

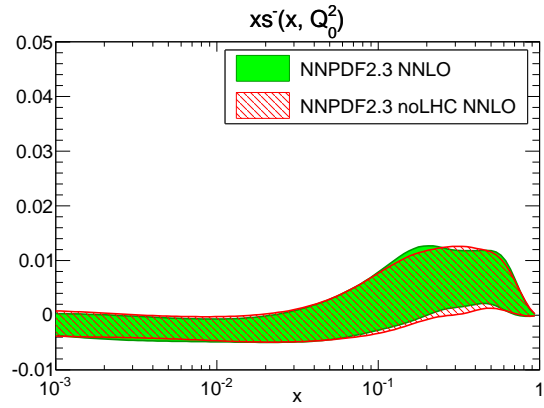
Figure 48



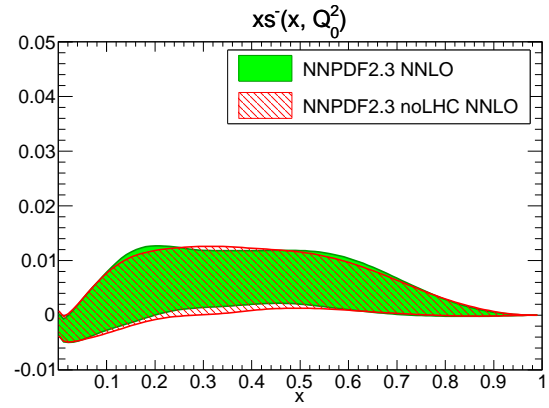
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 49

3.6.2 Flavor basis

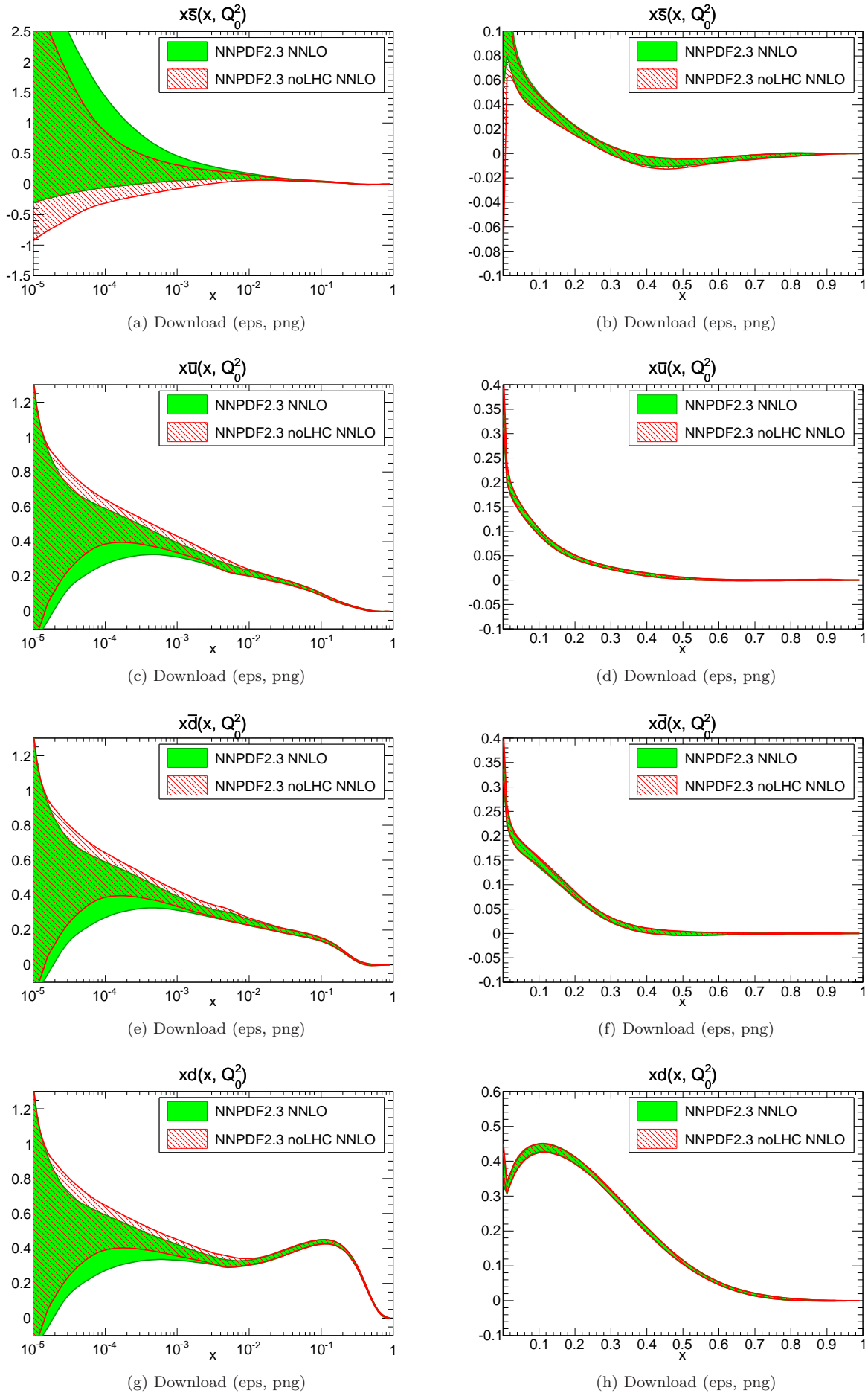
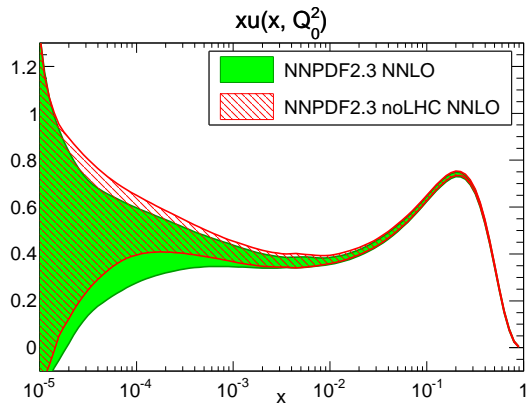
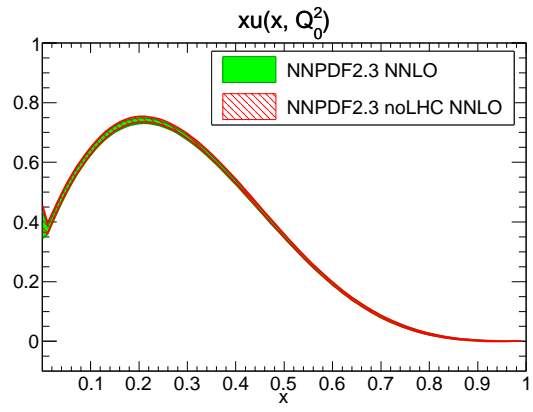


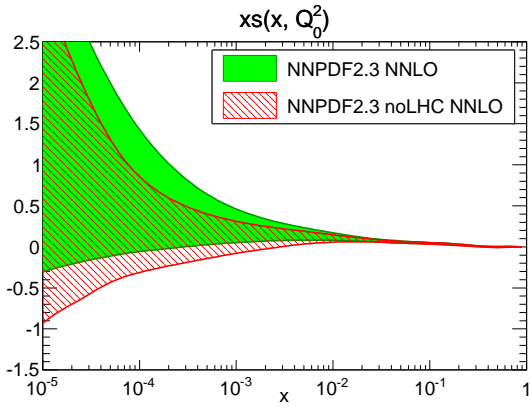
Figure 50



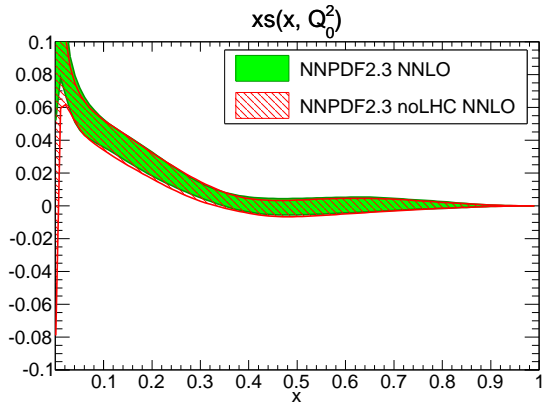
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 51

3.7 NNPDF2.3 NLO vs NNPDF2.3 collider NLO

3.7.1 Evolution basis

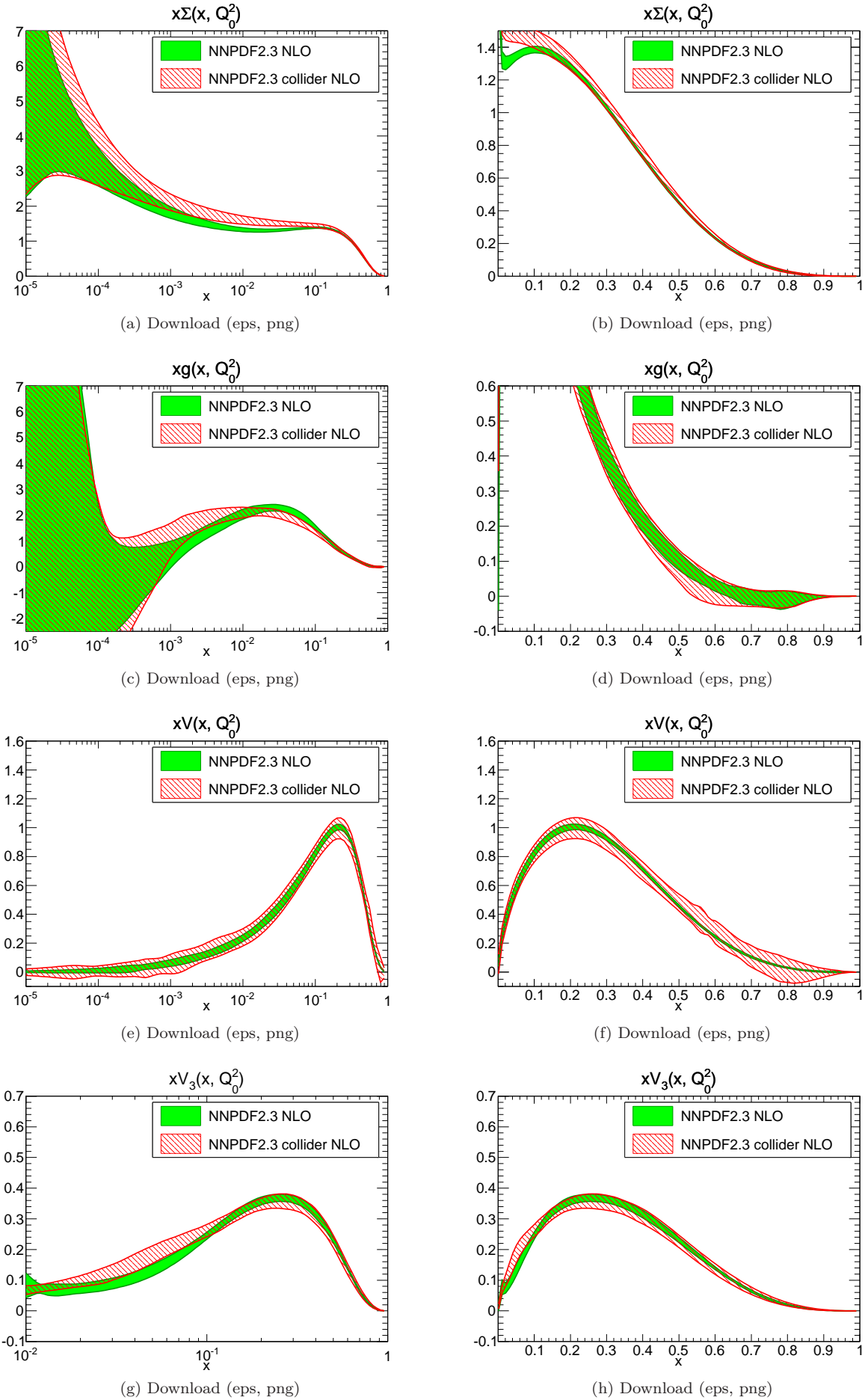
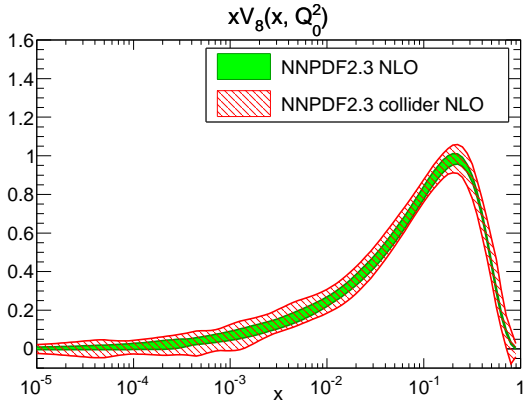
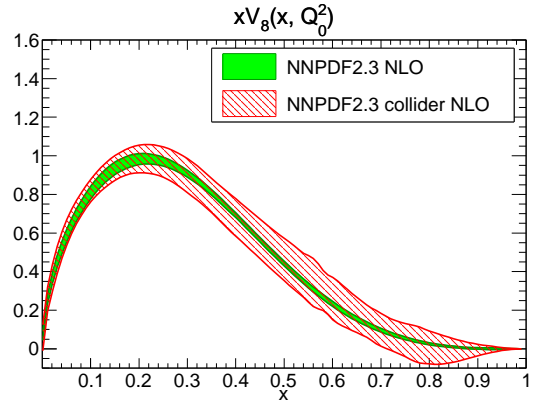


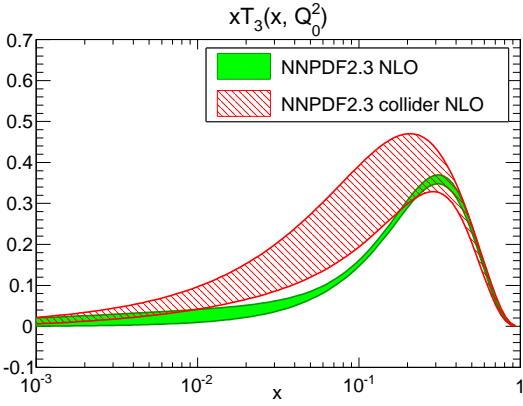
Figure 52



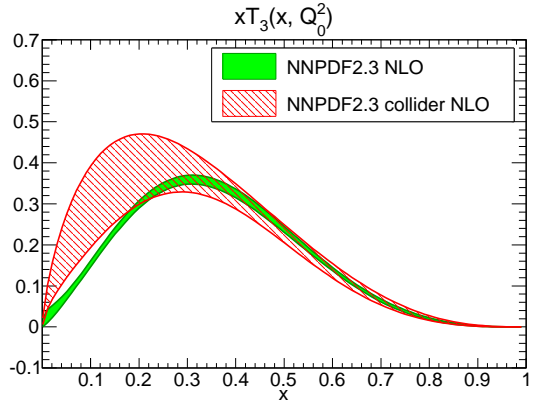
(a) Download (eps, png)



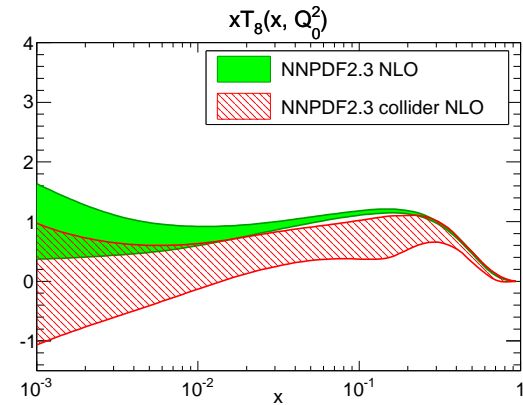
(b) Download (eps, png)



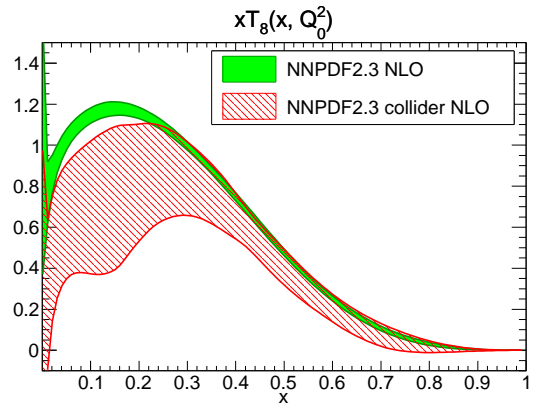
(c) Download (eps, png)



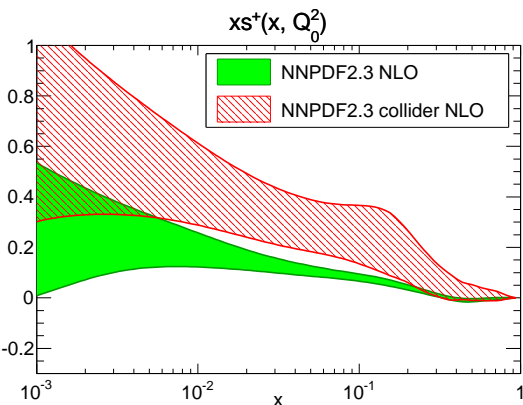
(d) Download (eps, png)



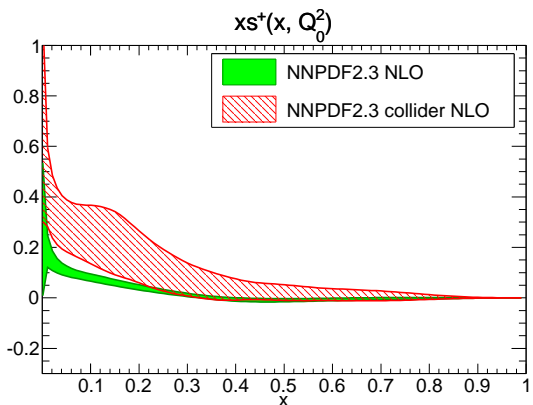
(e) Download (eps, png)



(f) Download (eps, png)



(g) Download (eps, png)



(h) Download (eps, png)

Figure 53

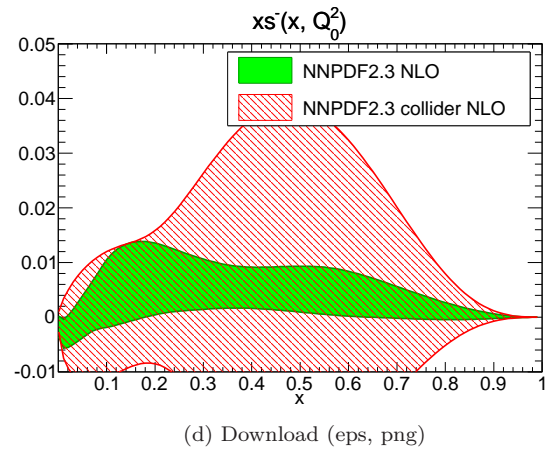
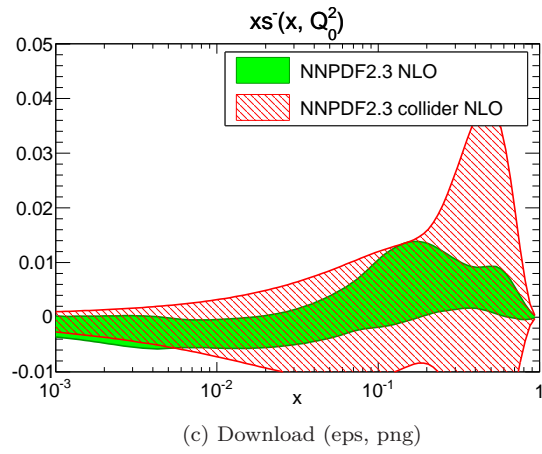
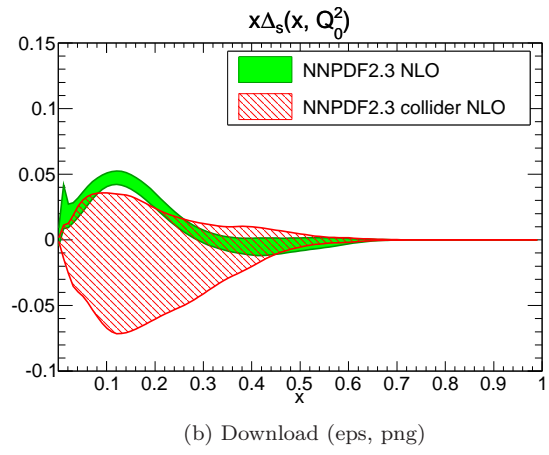
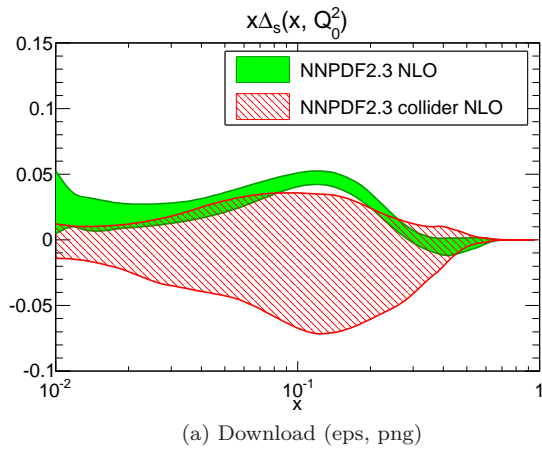
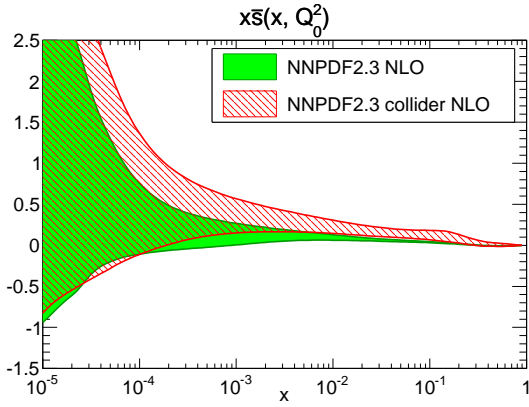
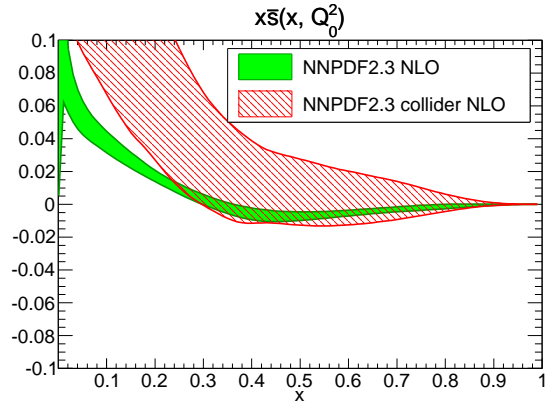


Figure 54

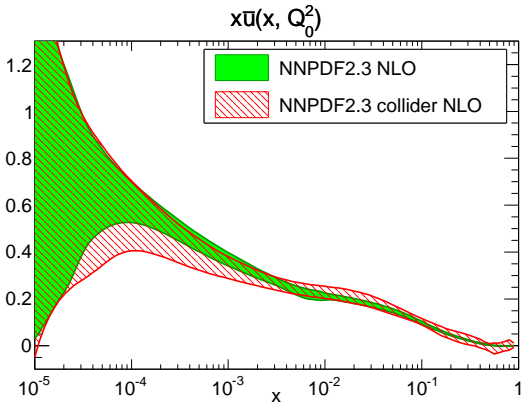
3.7.2 Flavor basis



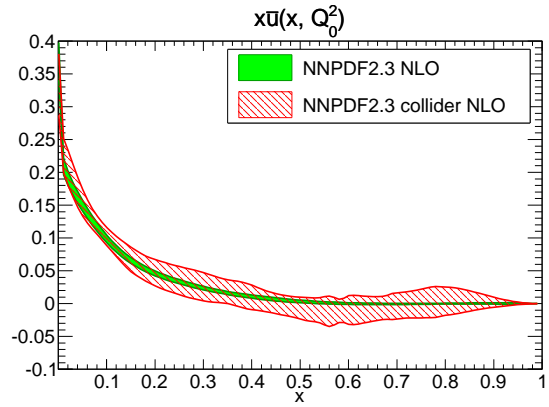
(a) Download (eps, png)



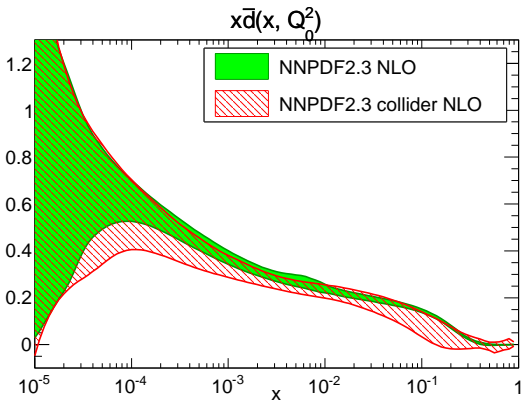
(b) Download (eps, png)



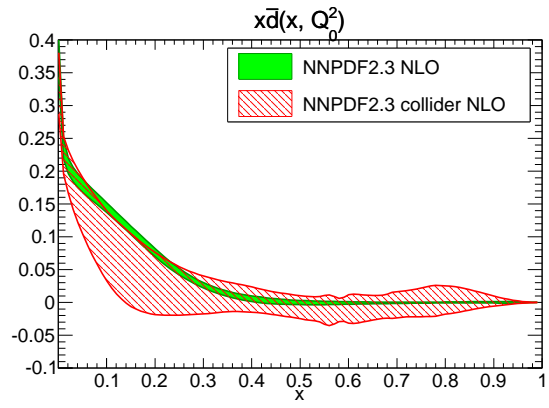
(c) Download (eps, png)



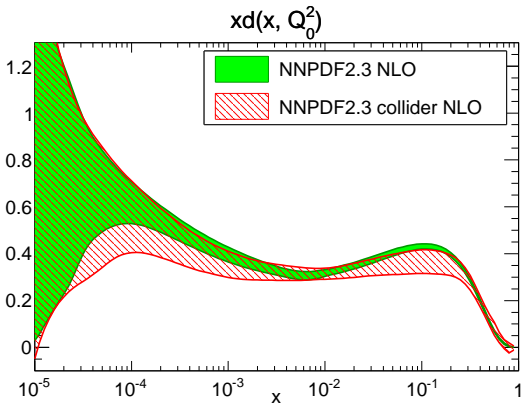
(d) Download (eps, png)



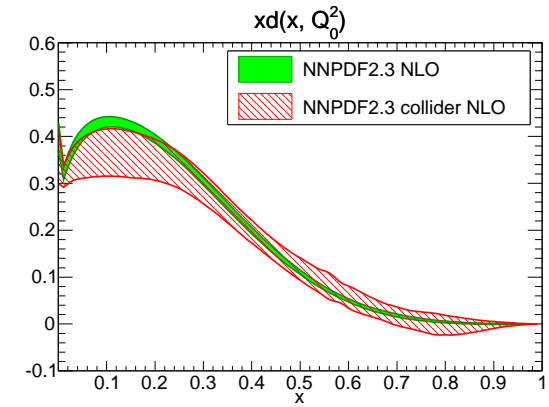
(e) Download (eps, png)



(f) Download (eps, png)

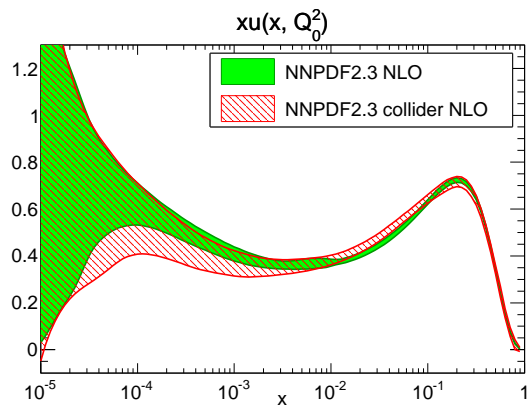


(g) Download (eps, png)

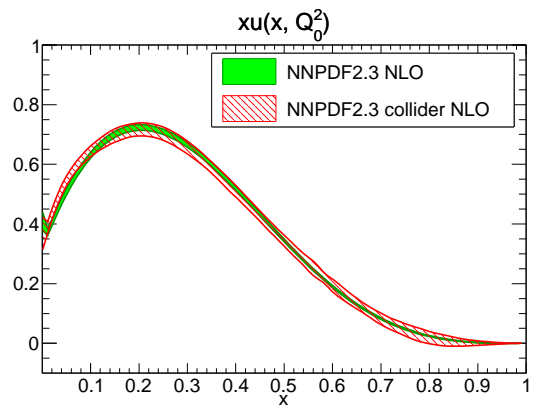


(h) Download (eps, png)

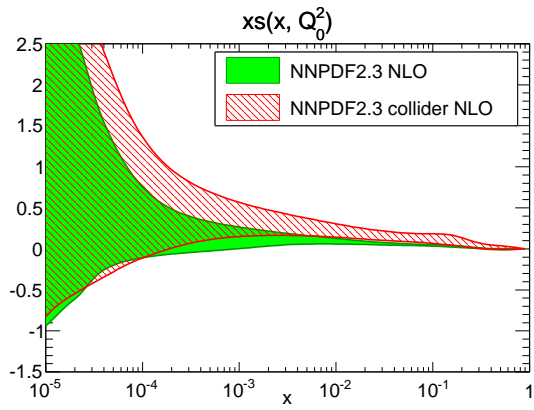
Figure 55



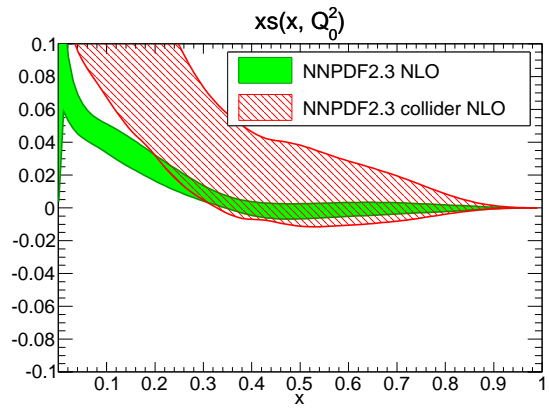
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 56

3.7.3 Replicas NNPDF2.3 collider NLO at $Q^2 = 2 \text{ GeV}^2$

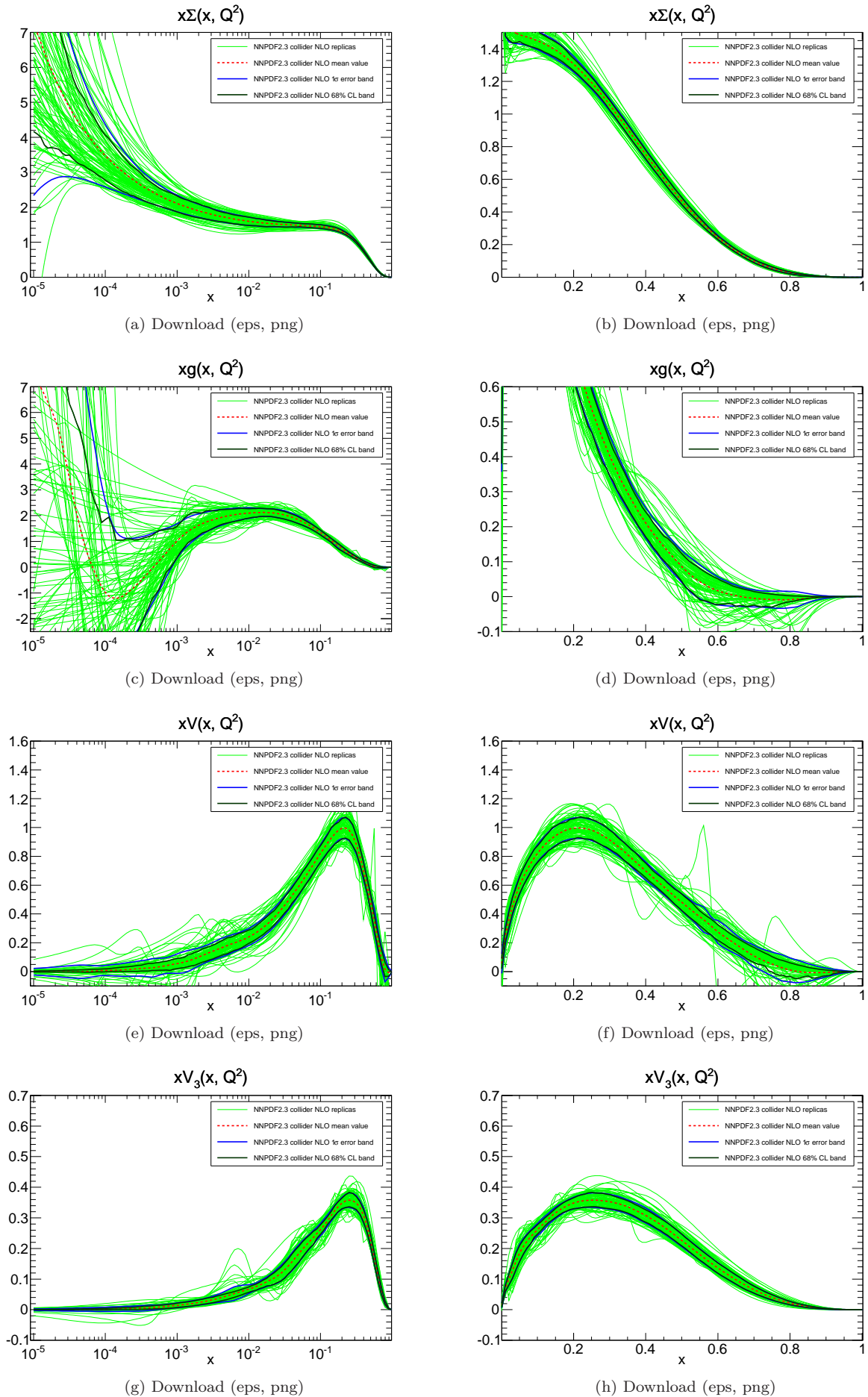
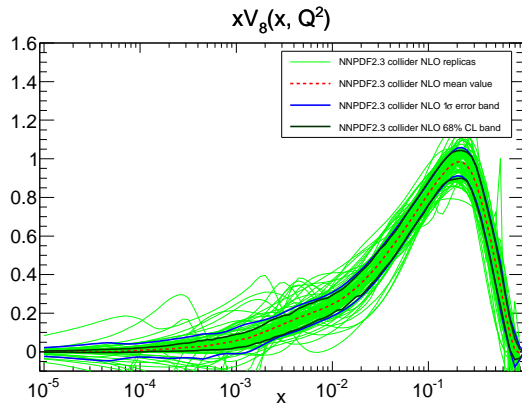
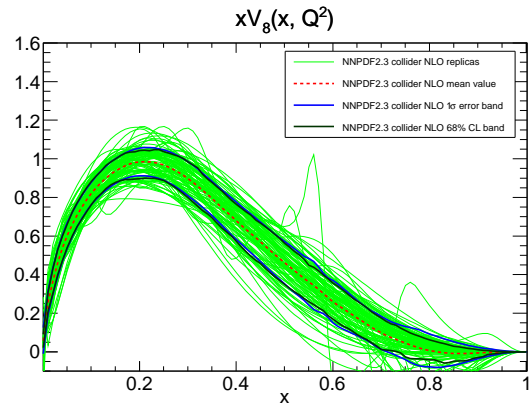


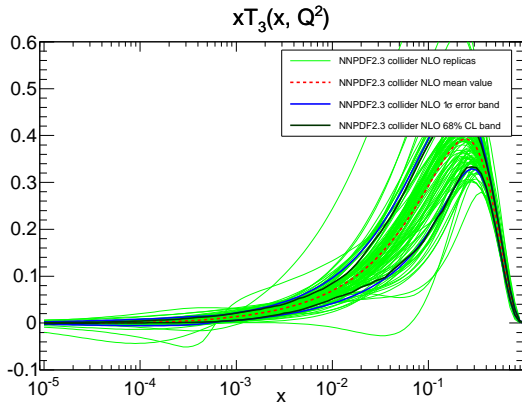
Figure 57



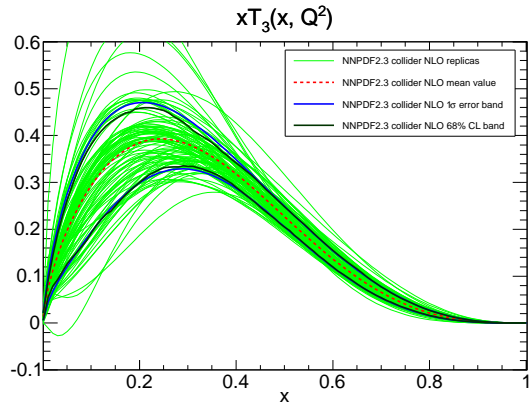
(a) Download (eps, png)



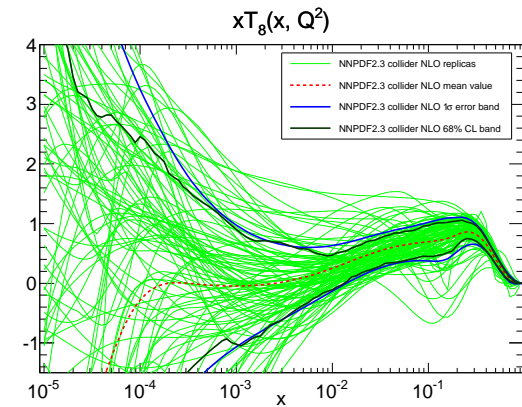
(b) Download (eps, png)



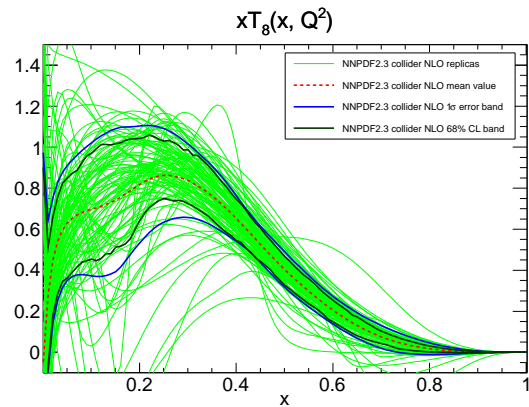
(c) Download (eps, png)



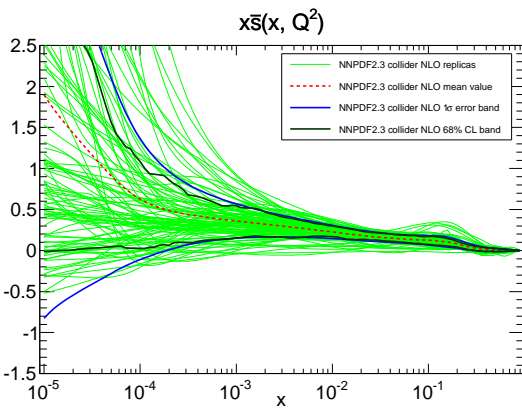
(d) Download (eps, png)



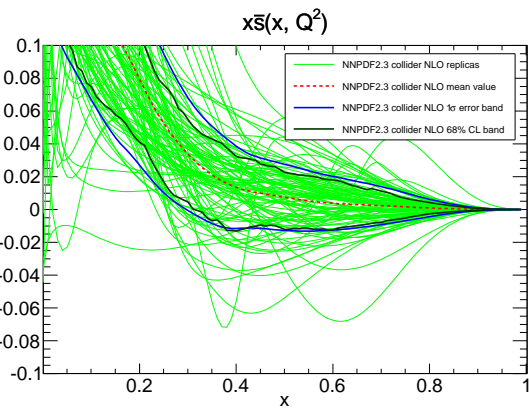
(e) Download (eps, png)



(f) Download (eps, png)

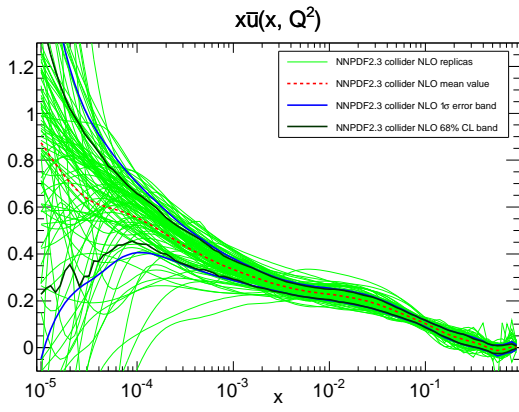


(g) Download (eps, png)

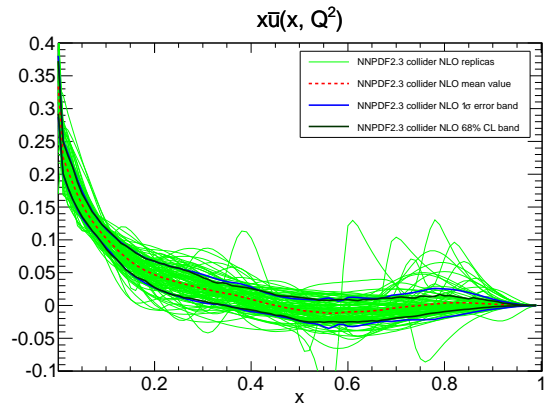


(h) Download (eps, png)

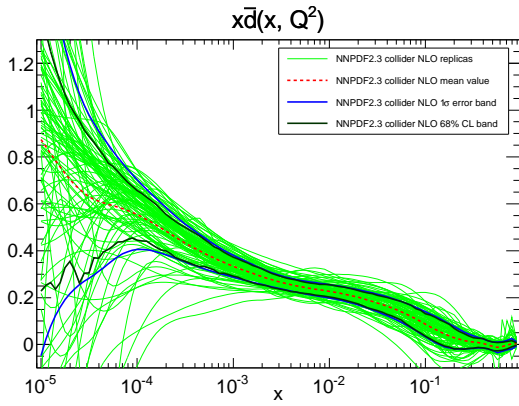
Figure 58



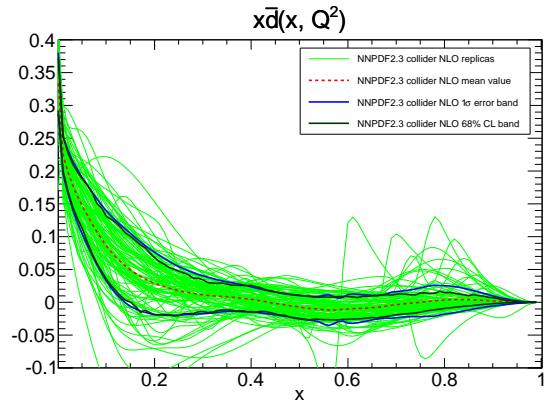
(a) Download (eps, png)



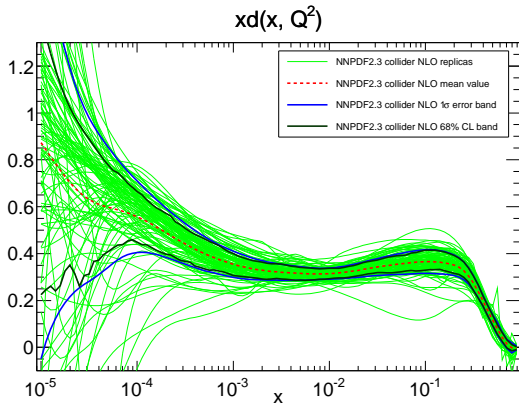
(b) Download (eps, png)



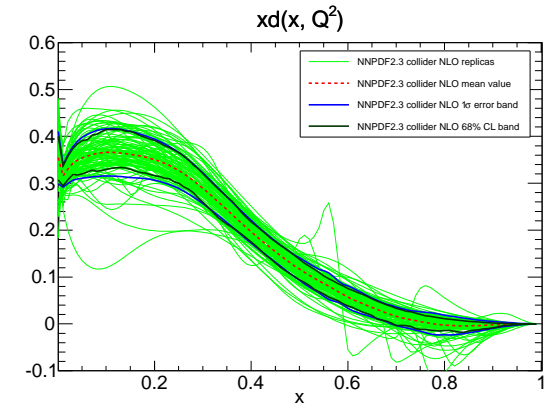
(c) Download (eps, png)



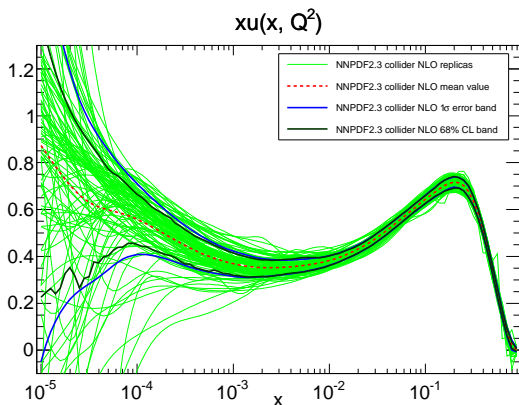
(d) Download (eps, png)



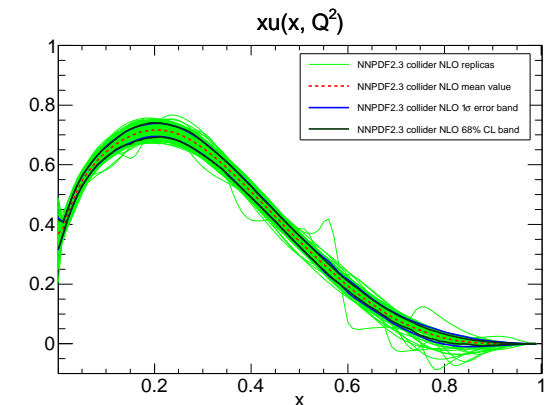
(e) Download (eps, png)



(f) Download (eps, png)

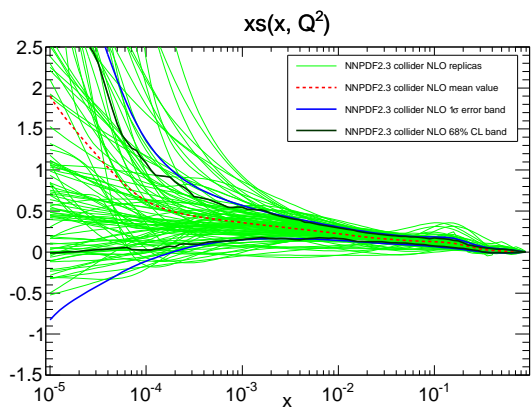


(g) Download (eps, png)

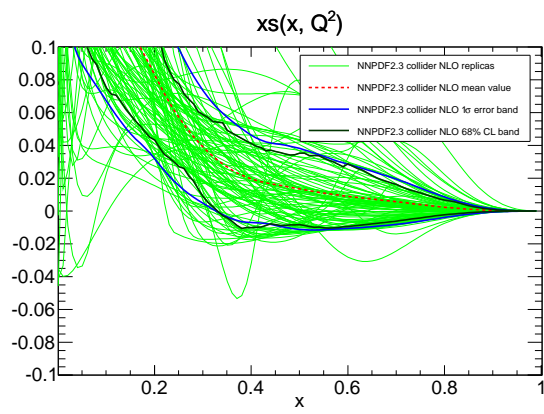


(h) Download (eps, png)

Figure 59



(a) Download (eps, png)



(b) Download (eps, png)

Figure 60

3.8 NNPDF2.3 NNLO vs NNPDF2.3 collider NNLO

3.8.1 Evolution basis

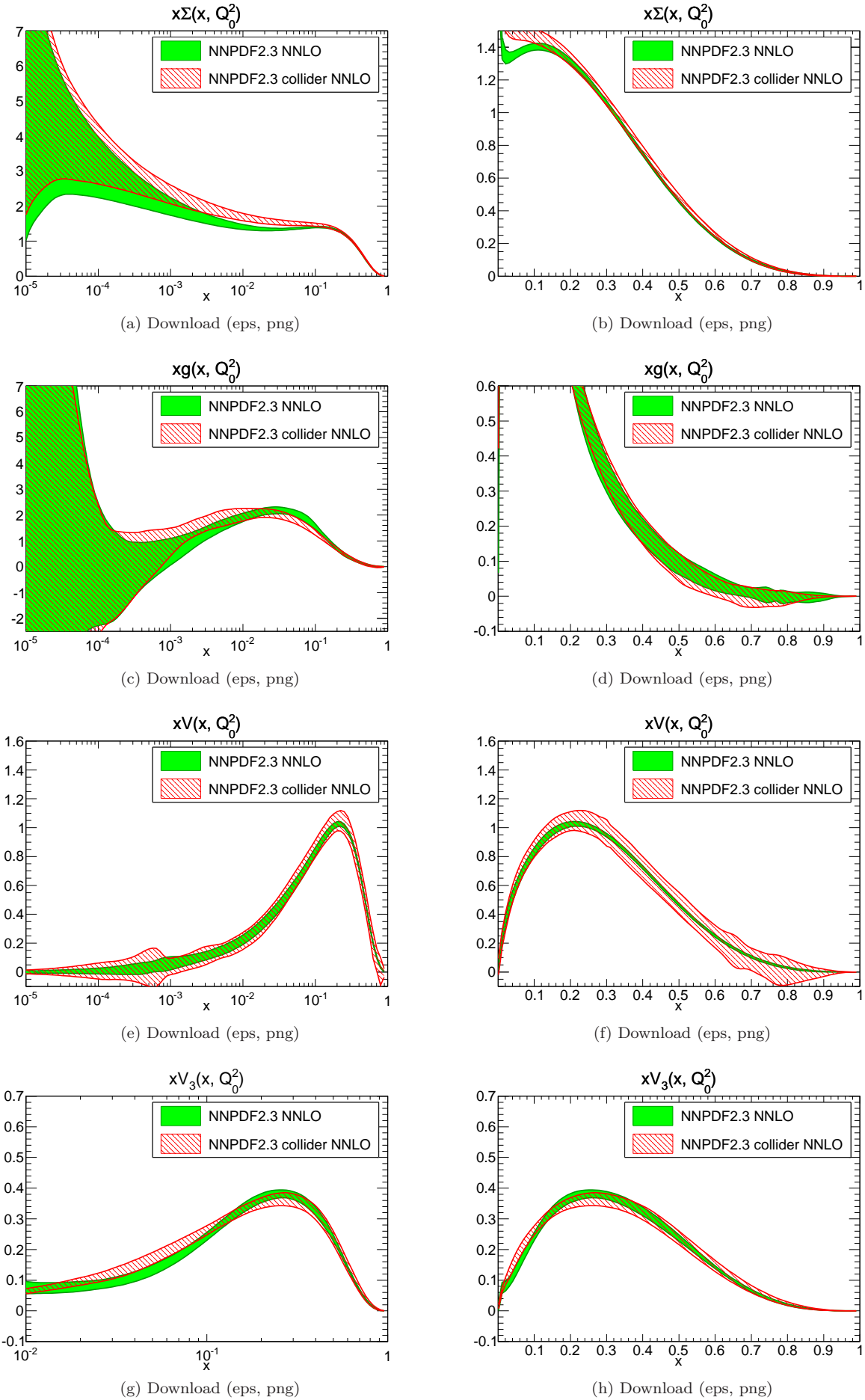
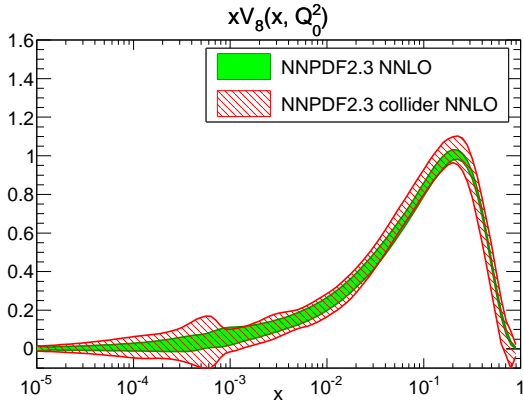
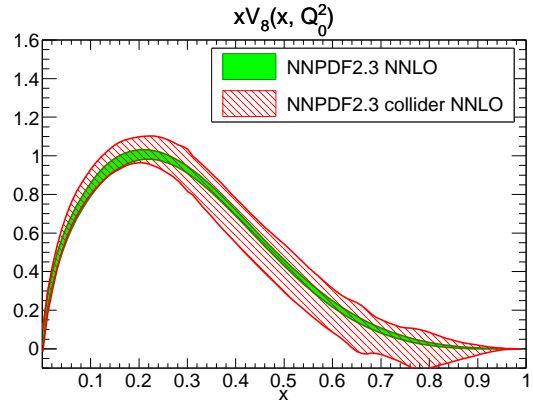


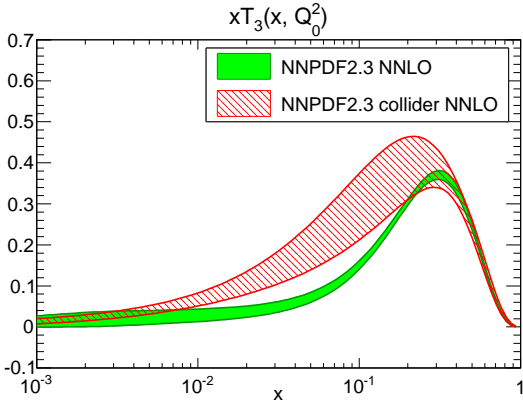
Figure 61



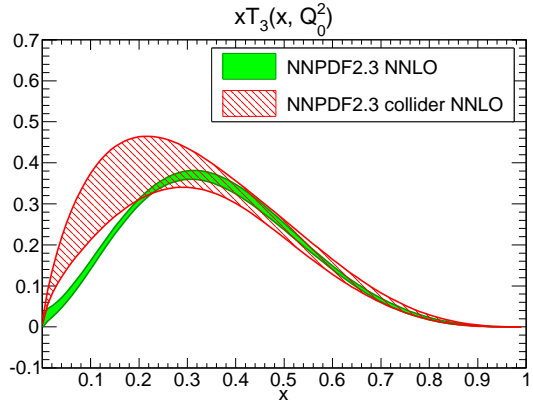
(a) Download (eps, png)



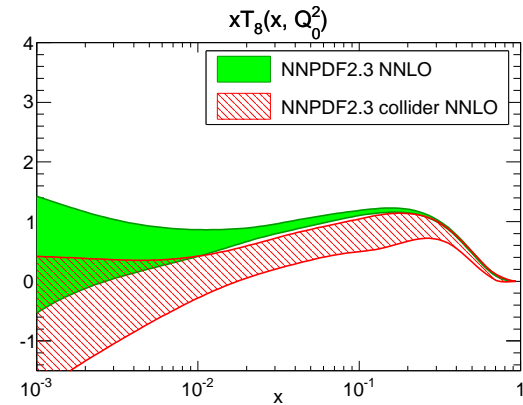
(b) Download (eps, png)



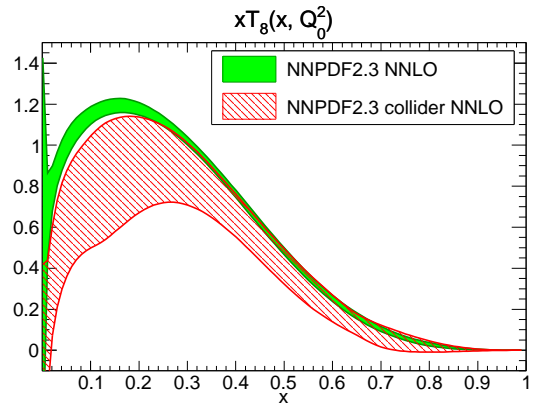
(c) Download (eps, png)



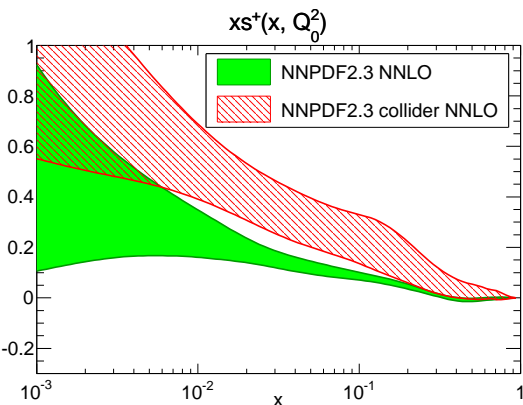
(d) Download (eps, png)



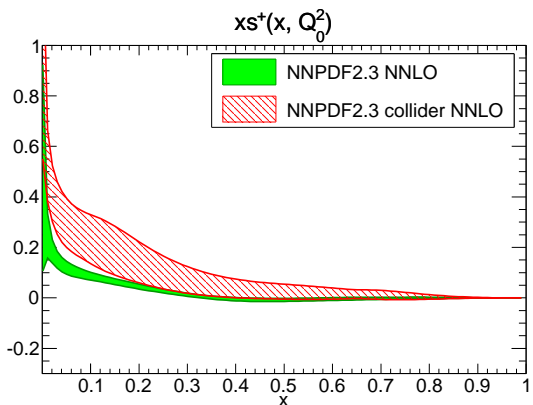
(e) Download (eps, png)



(f) Download (eps, png)



(g) Download (eps, png)



(h) Download (eps, png)

Figure 62

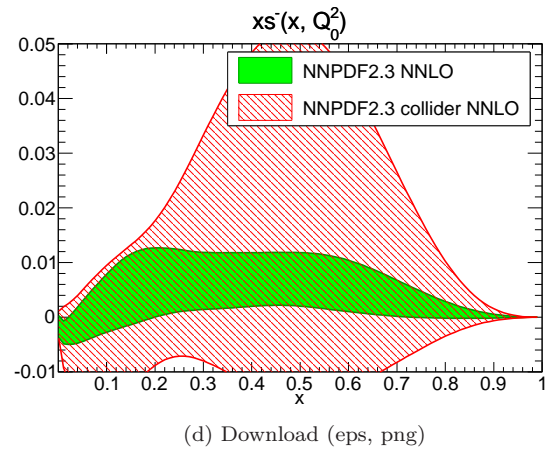
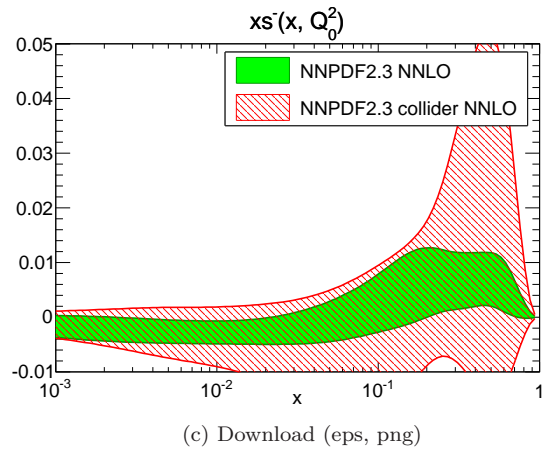
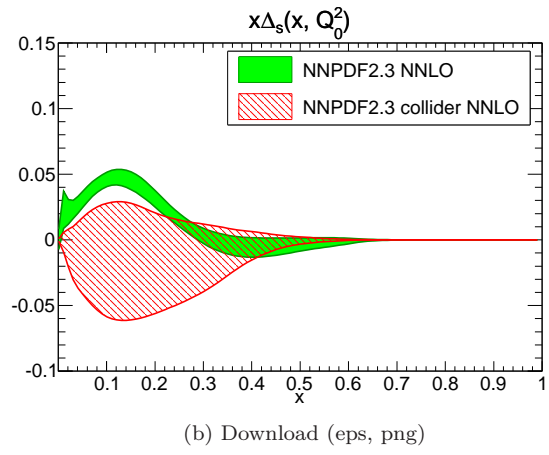
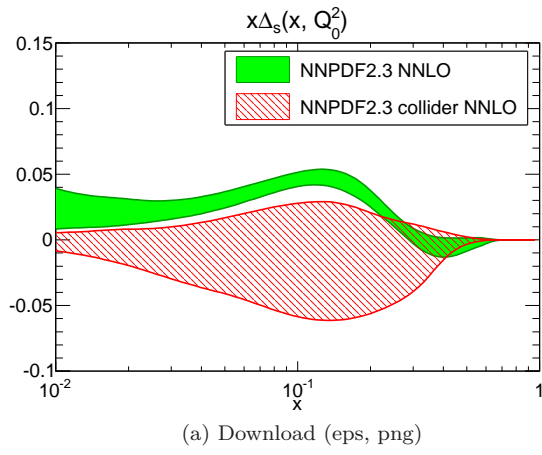


Figure 63

3.8.2 Flavor basis

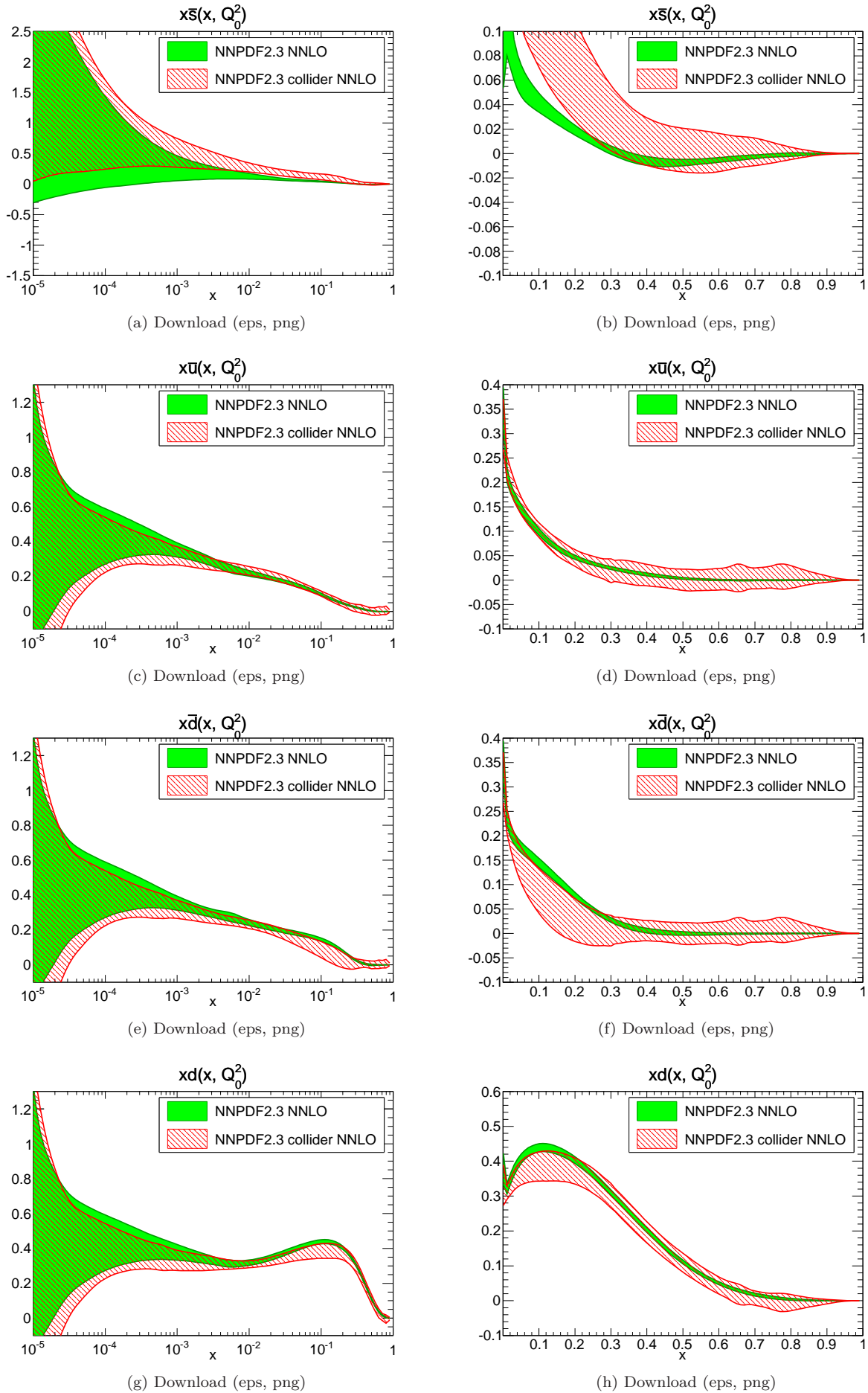
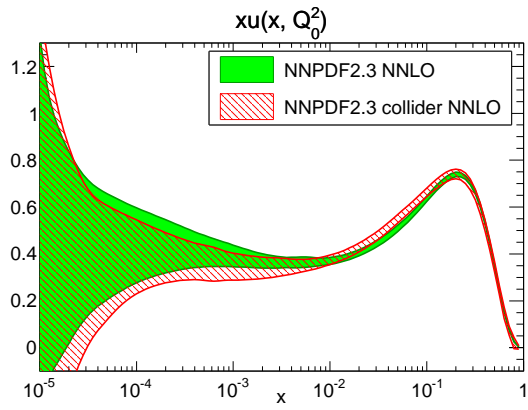
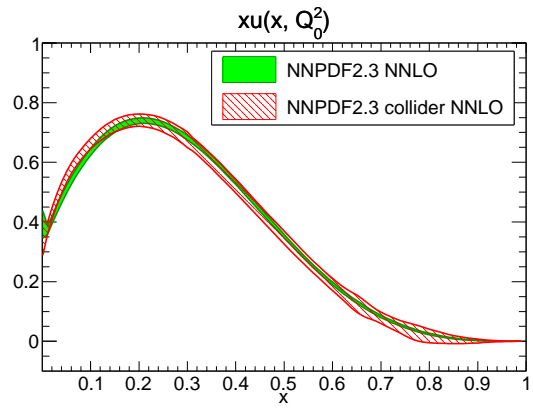


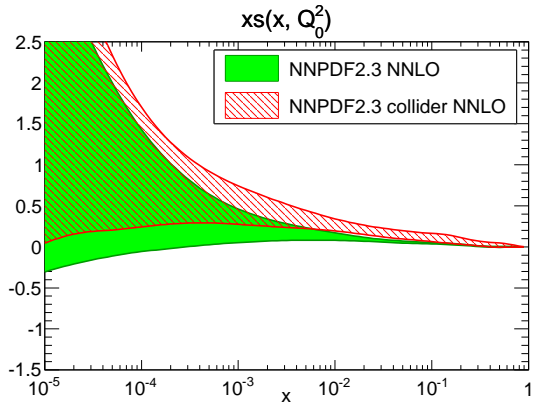
Figure 64



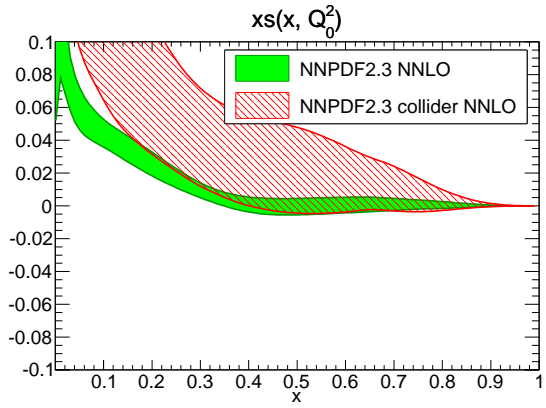
(a) Download (eps, png)



(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

Figure 65

3.8.3 Replicas NNPDF2.3 collider NNLO at $Q^2 = 2 \text{ GeV}^2$

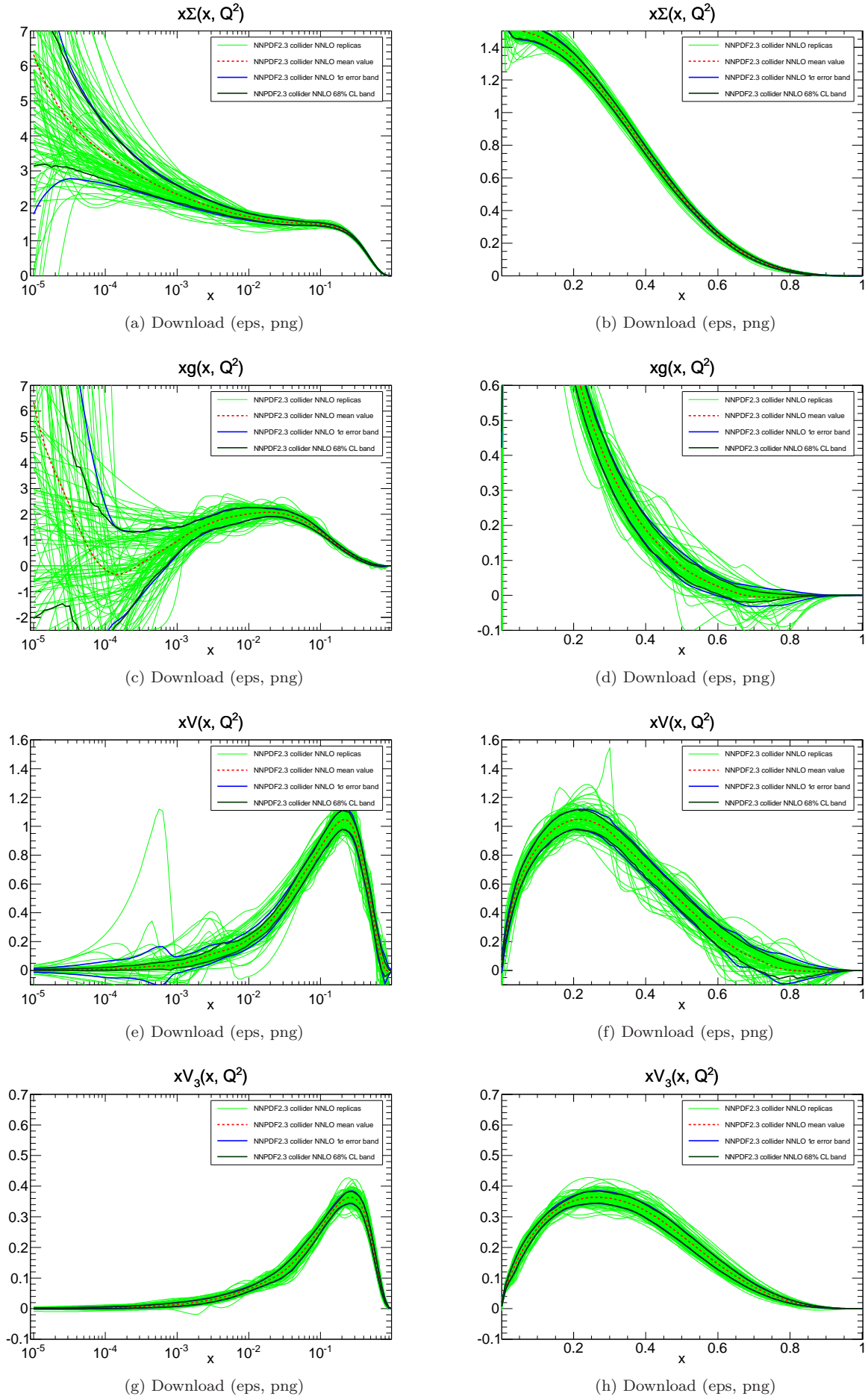
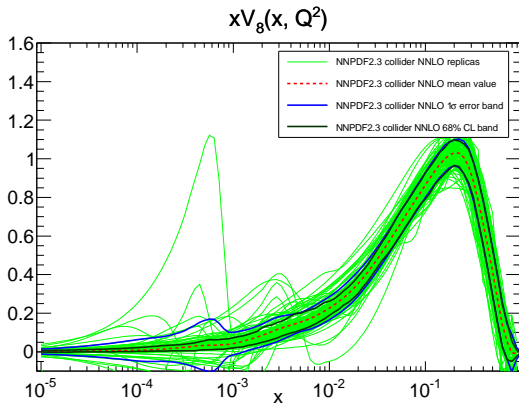
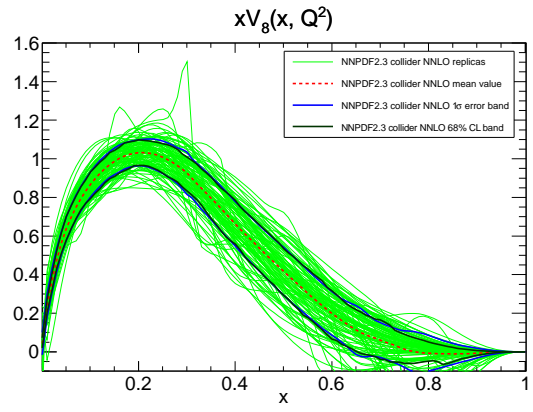


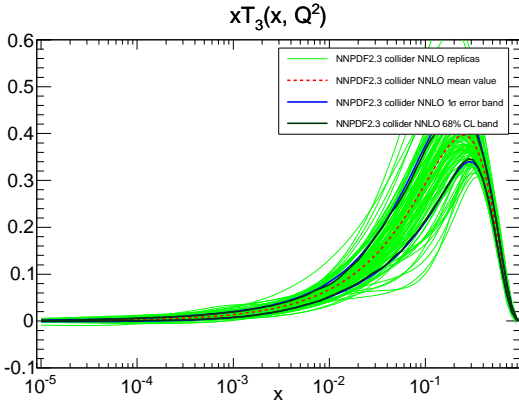
Figure 66



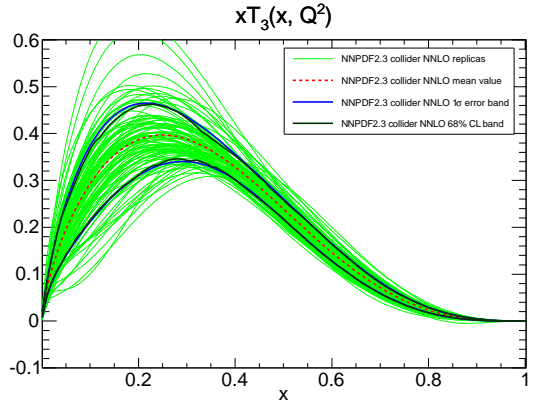
(a) Download (eps, png)



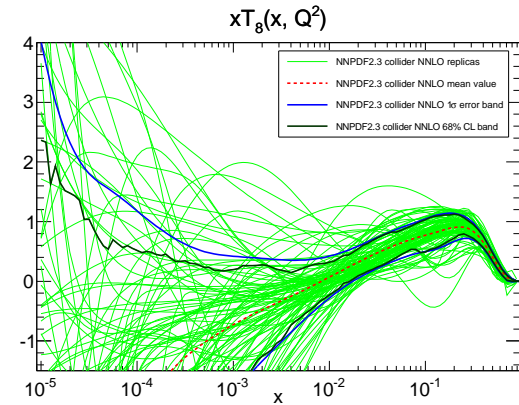
(b) Download (eps, png)



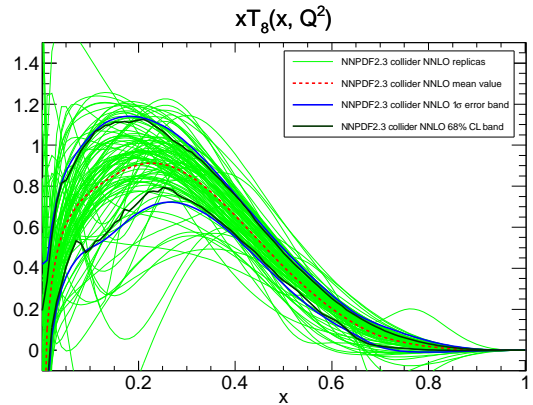
(c) Download (eps, png)



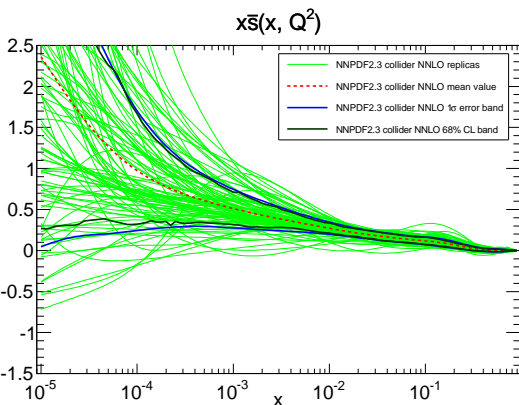
(d) Download (eps, png)



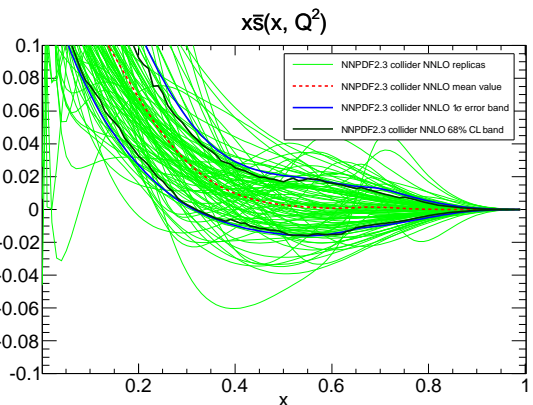
(e) Download (eps, png)



(f) Download (eps, png)

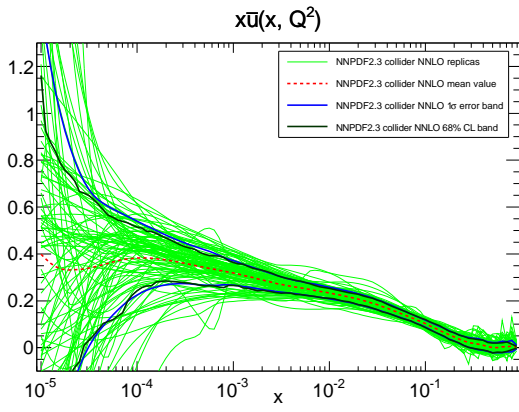


(g) Download (eps, png)

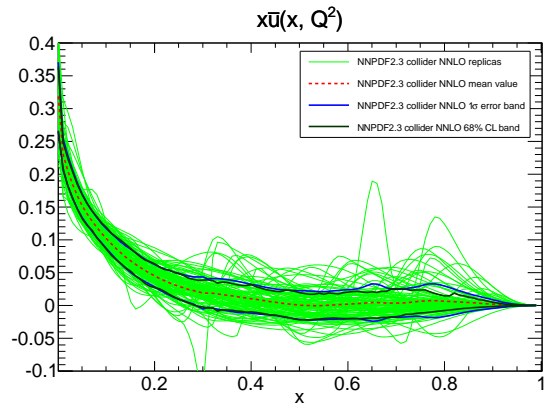


(h) Download (eps, png)

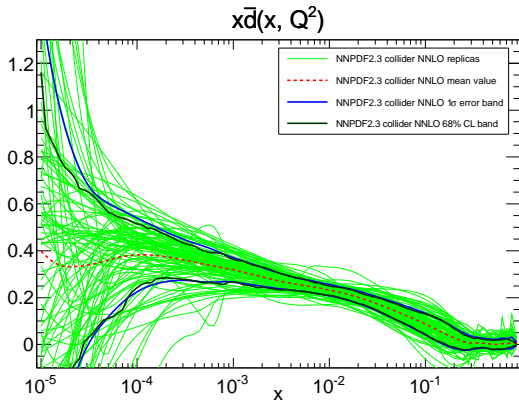
Figure 67



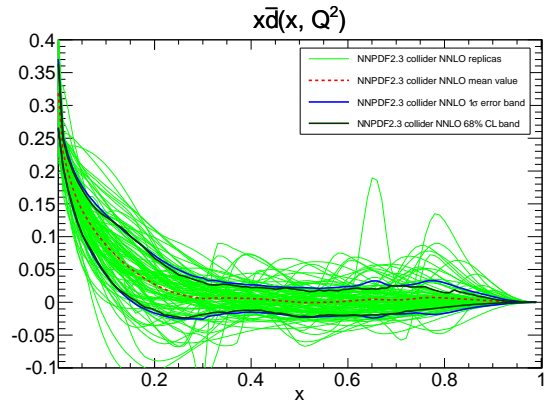
(a) Download (eps, png)



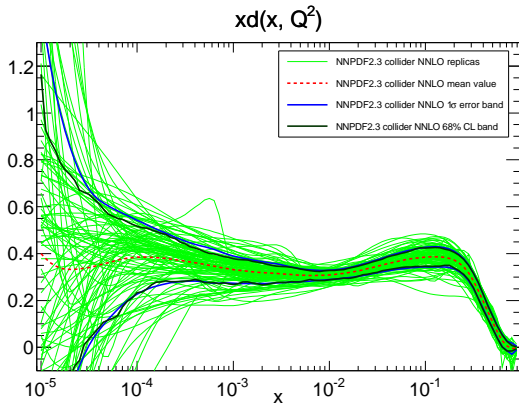
(b) Download (eps, png)



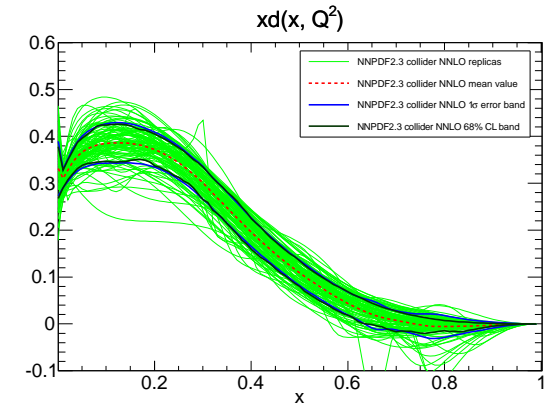
(c) Download (eps, png)



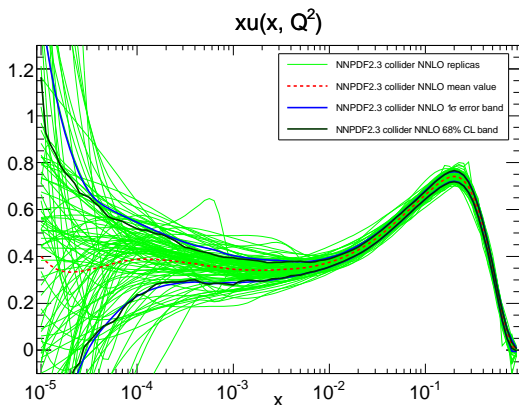
(d) Download (eps, png)



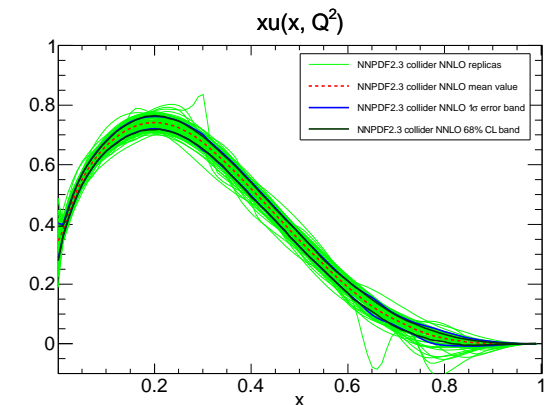
(e) Download (eps, png)



(f) Download (eps, png)

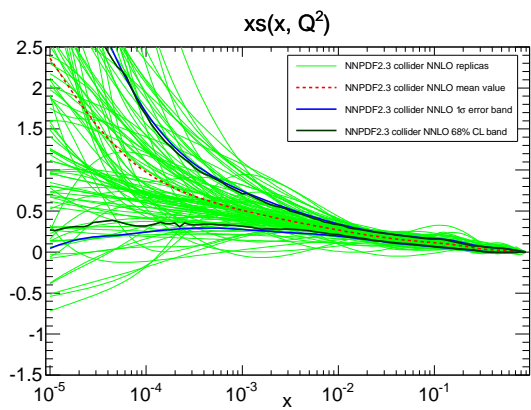


(g) Download (eps, png)

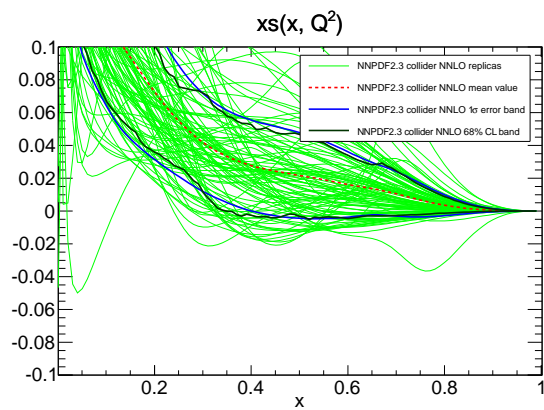


(h) Download (eps, png)

Figure 68



(a) Download (eps, png)



(b) Download (eps, png)

Figure 69

4 Distances plots

4.1 NNPDF2.1 NLO vs NNPDF2.3 NLO

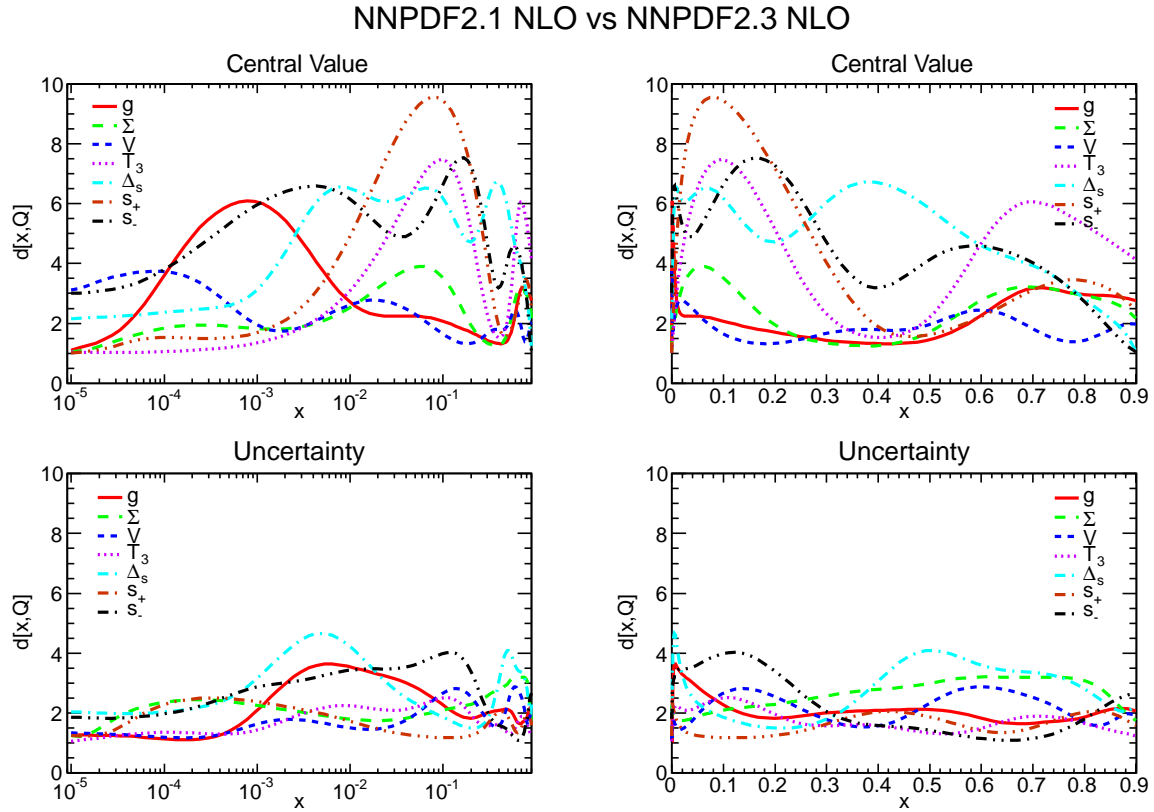


Figure 70: Download (eps, png)

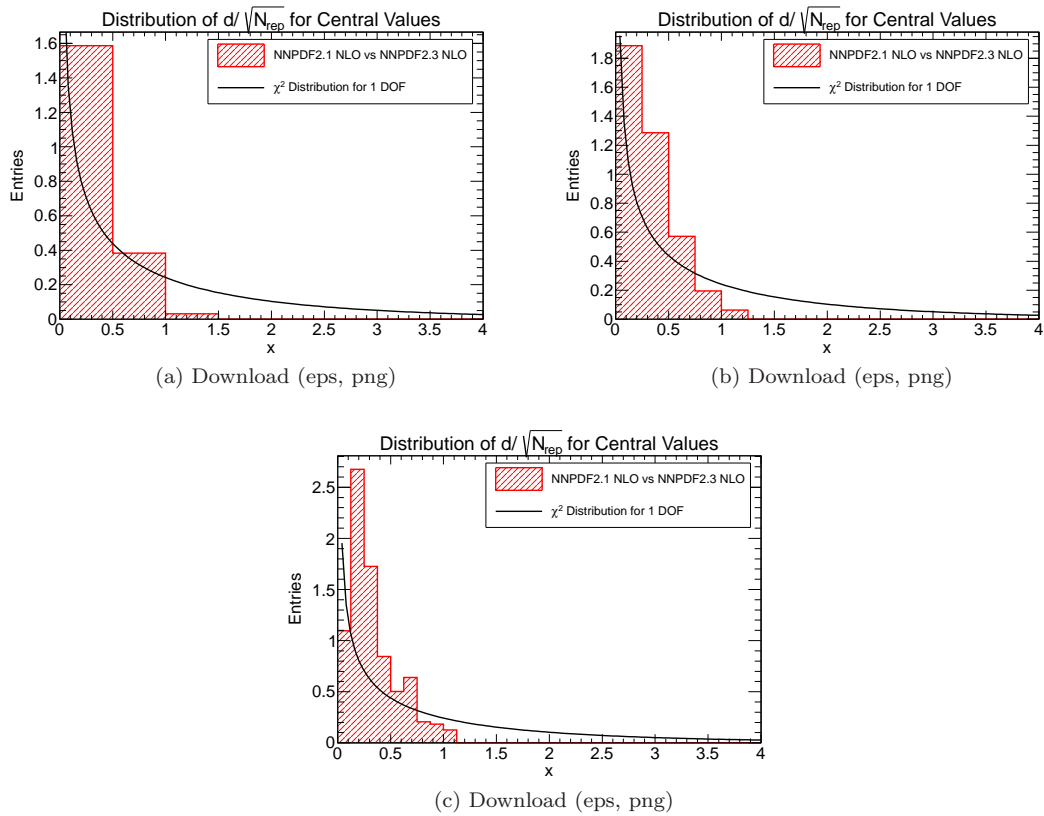


Figure 71

4.2 NNPDF2.1 NNLO vs NNPDF2.3 NNLO

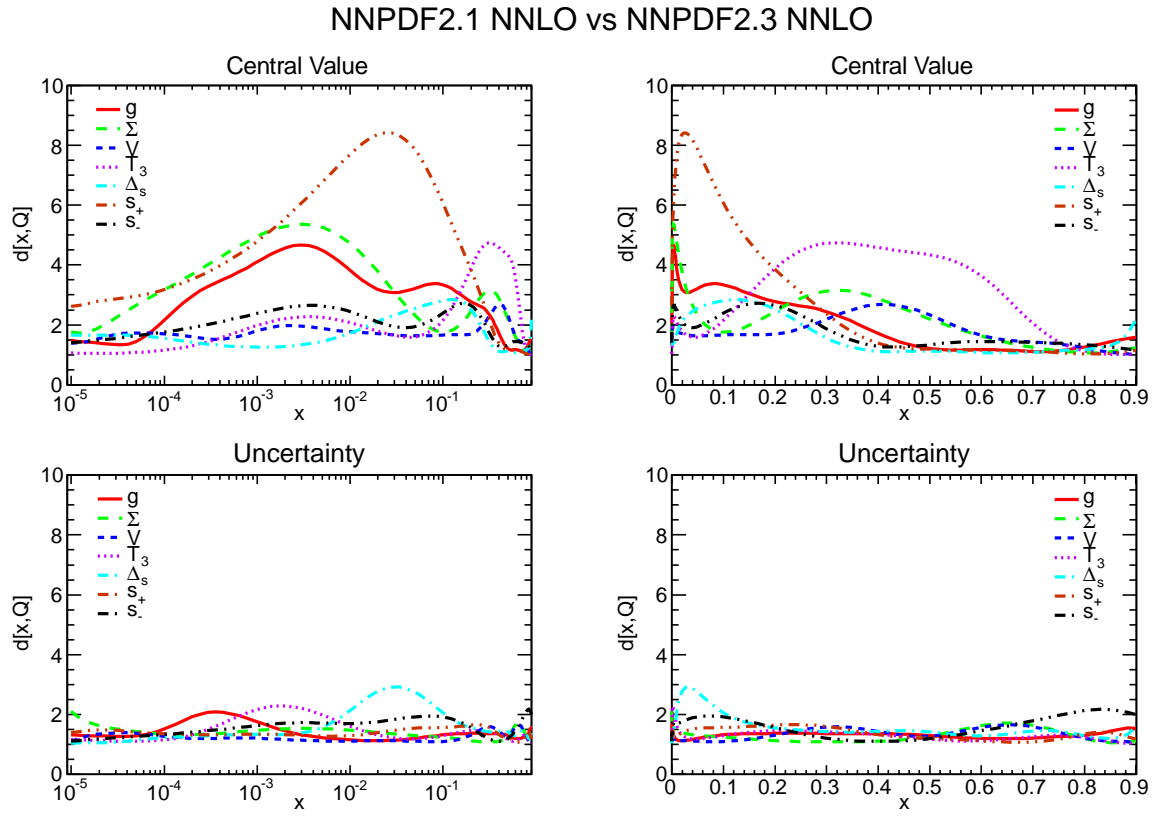
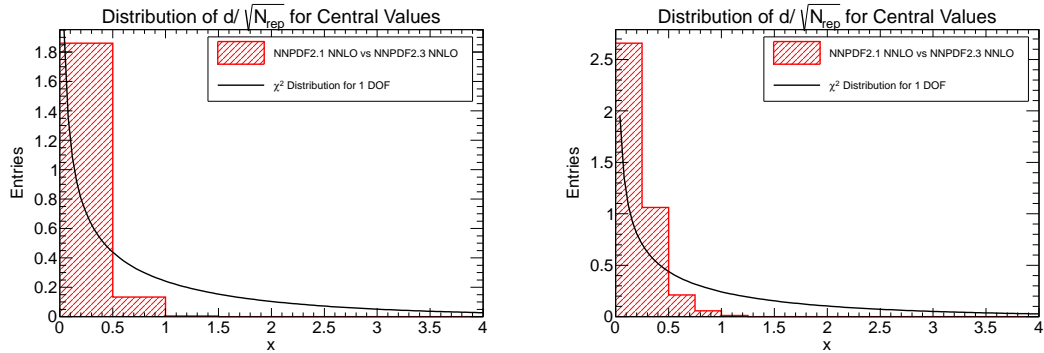
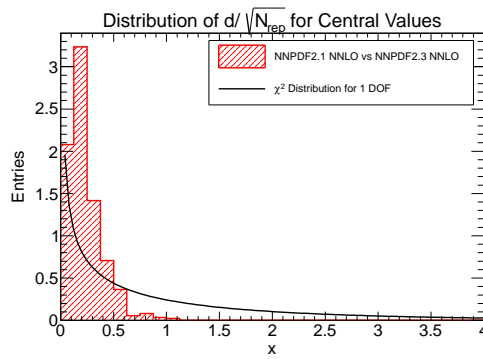


Figure 72: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 73

4.3 NNPDF2.3 collider NLO vs NNPDF2.3 NLO

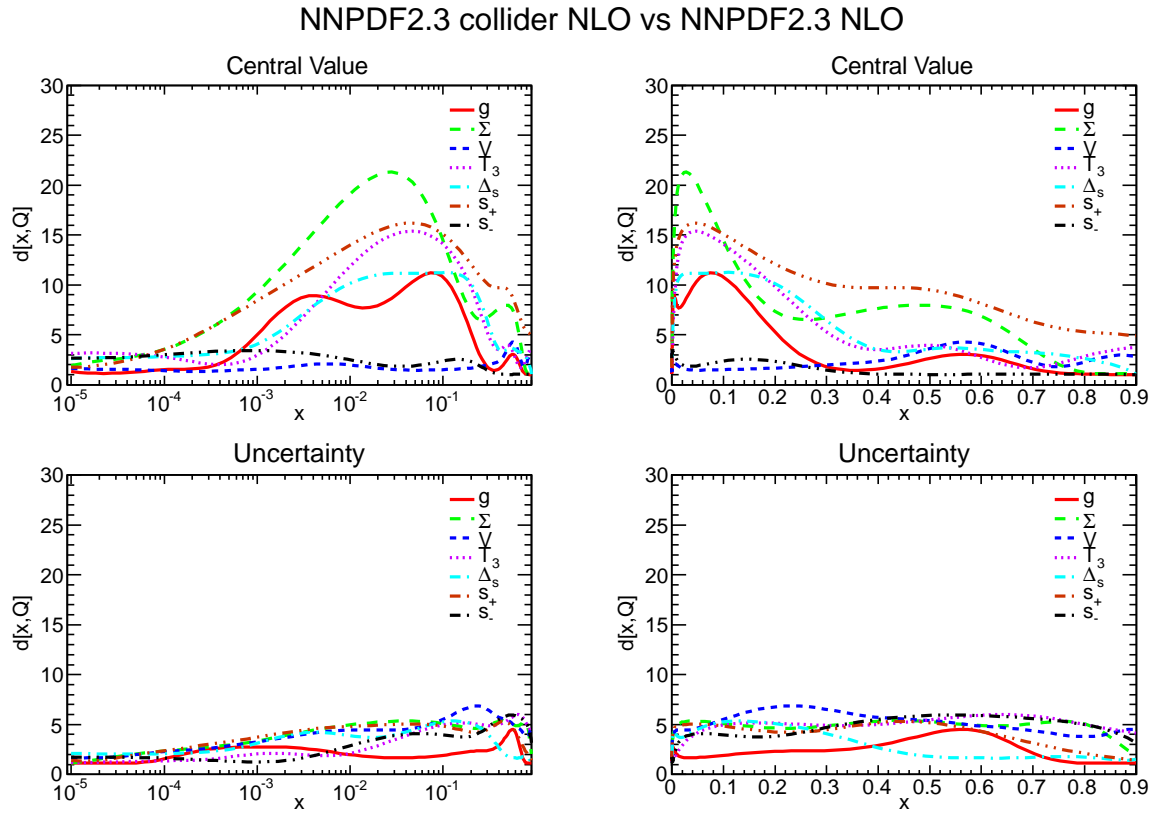


Figure 74: Download (eps, png)

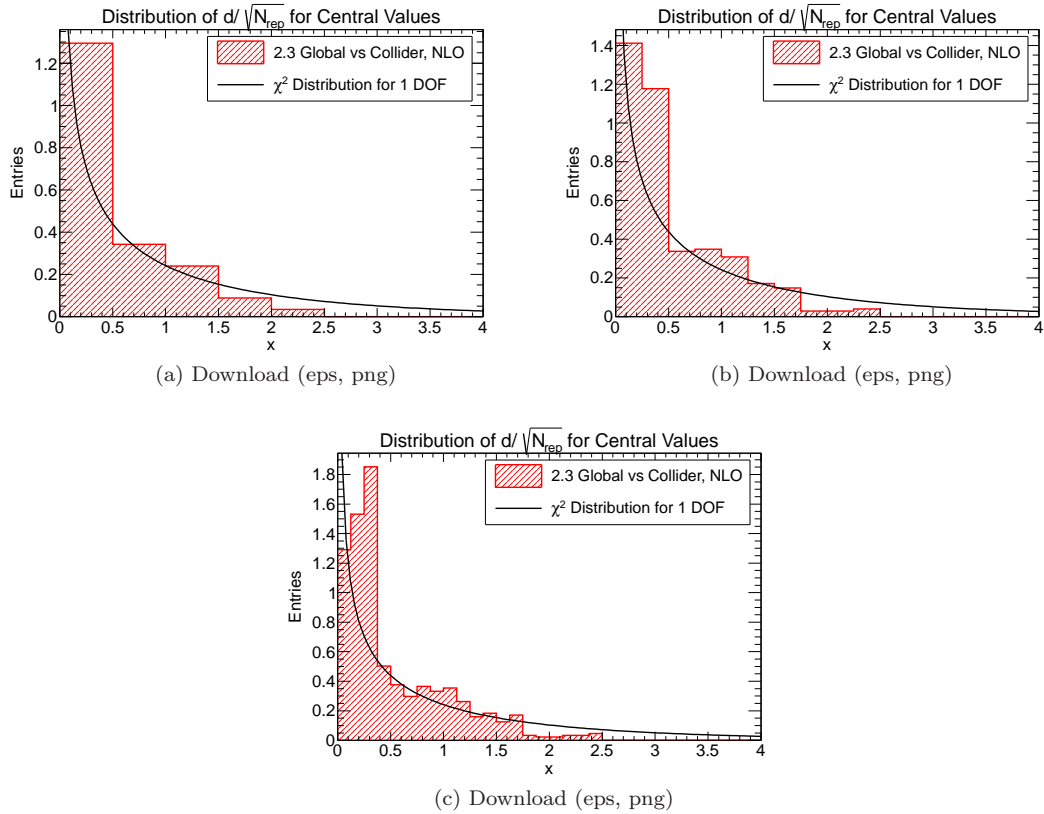


Figure 75

4.4 NNPDF2.3 collider NNLO vs NNPDF2.3 NNLO

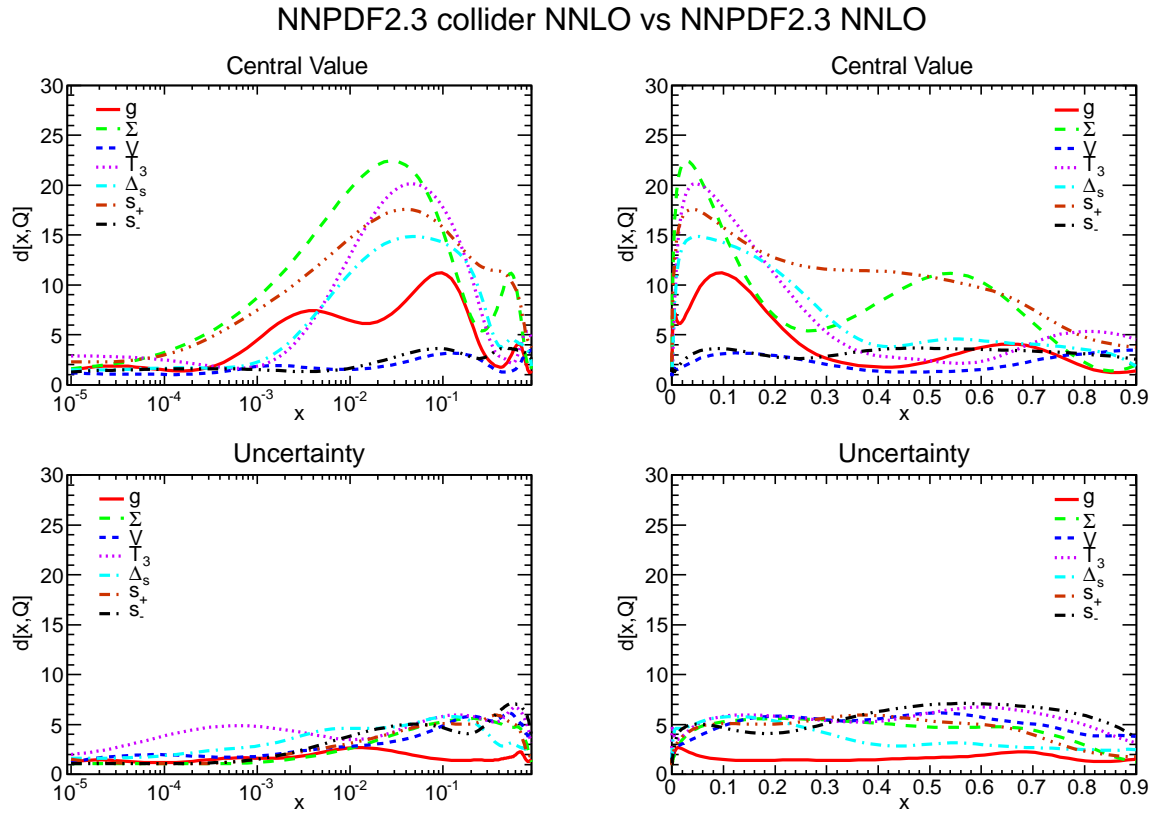
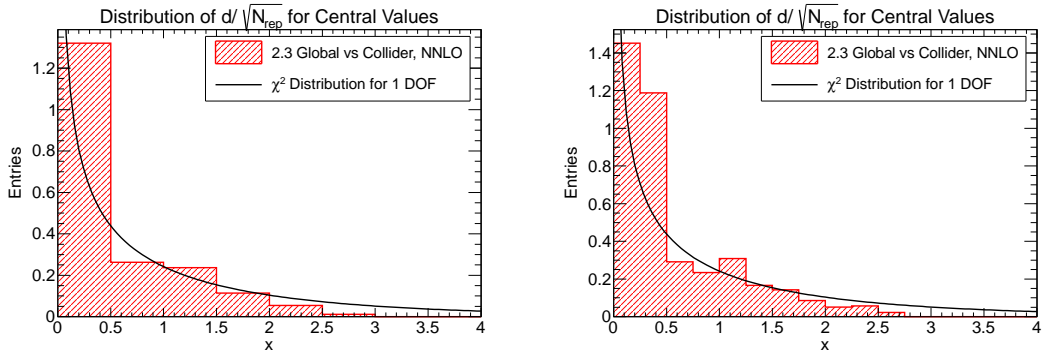
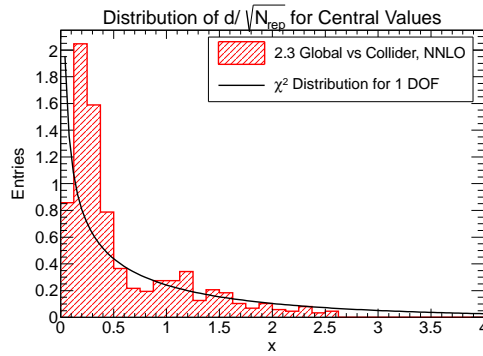


Figure 76: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 77

4.5 NNPDF2.1 NLO vs NNPDF2.3 noLHC NLO

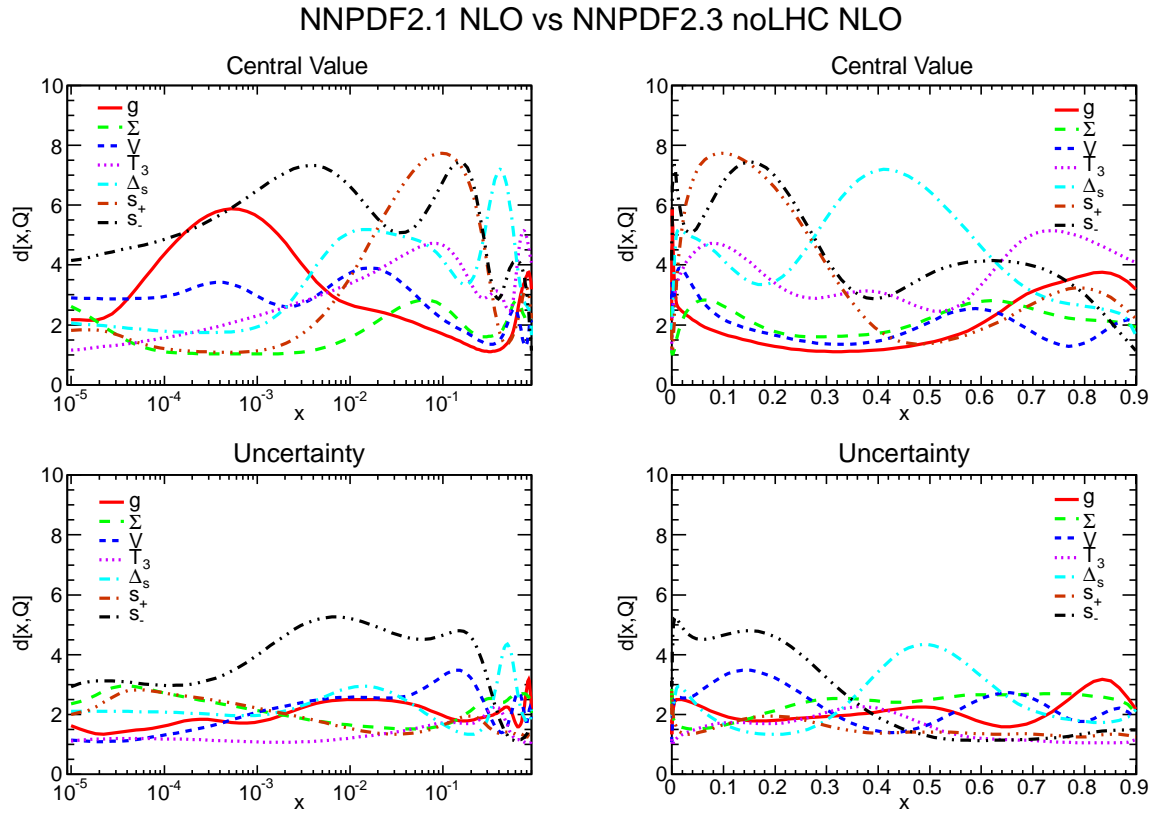


Figure 78: Download (eps, png)

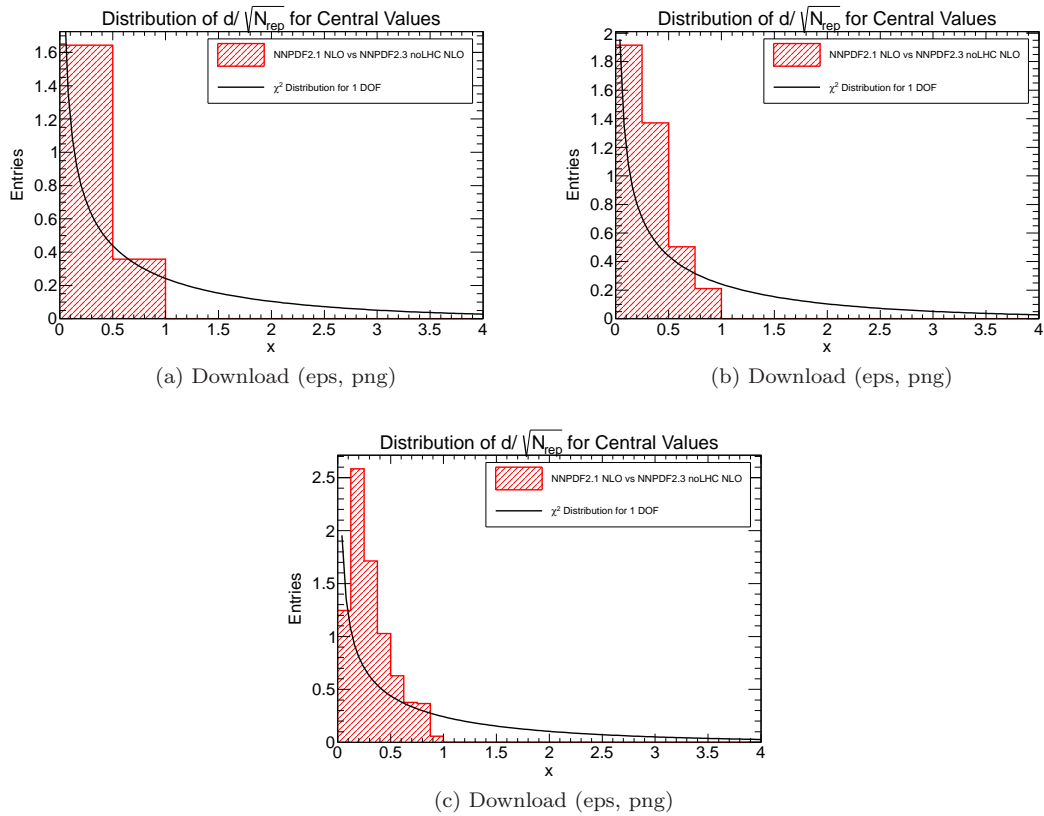


Figure 79

4.6 NNPDF2.1 NNLO vs NNPDF2.3 noLHC NNLO

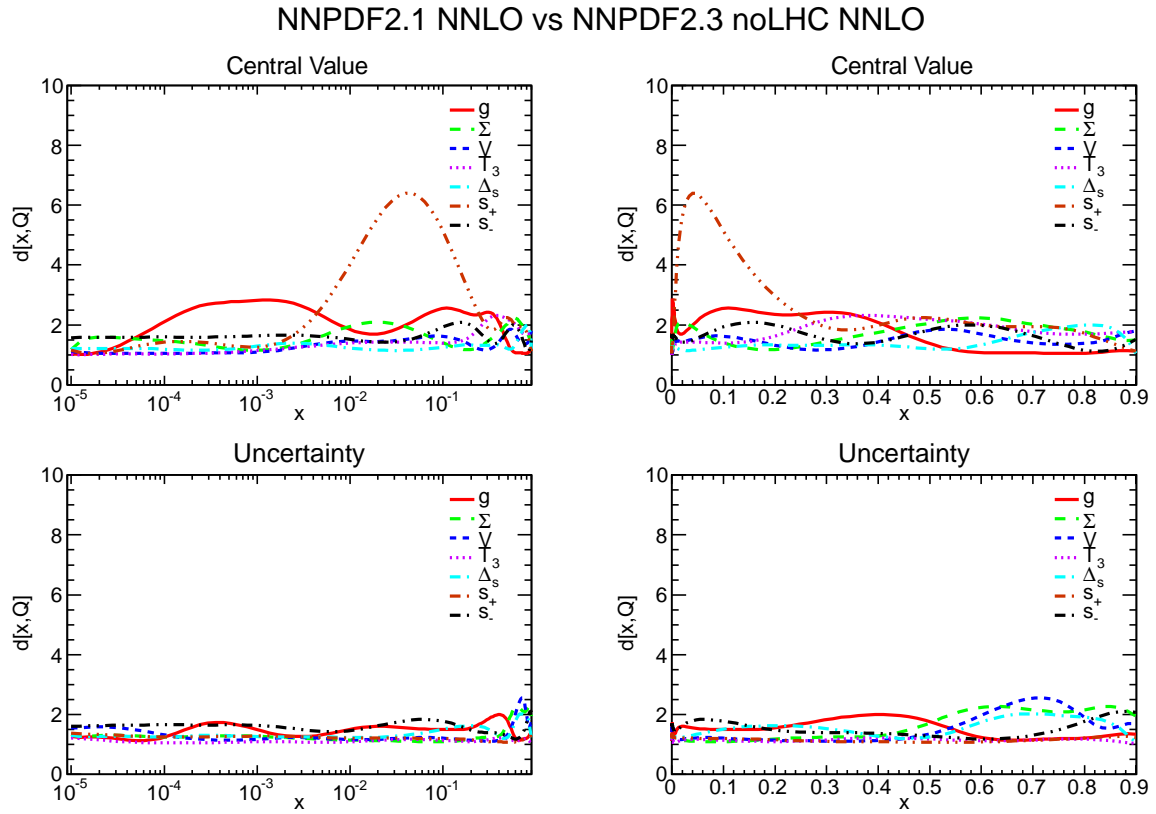
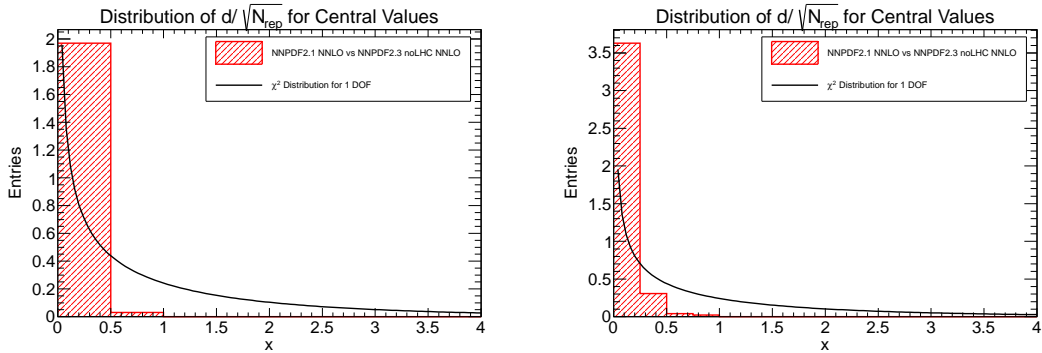
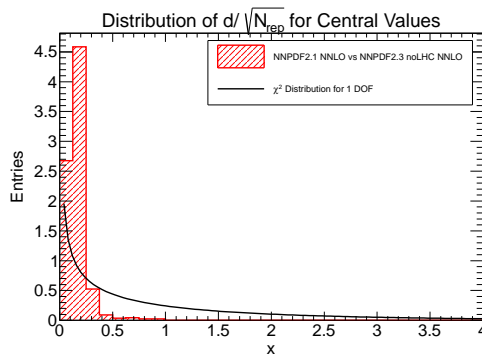


Figure 80: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 81

4.7 NNPDF2.3 noLHC NLO vs NNPDF2.3 collider NLO

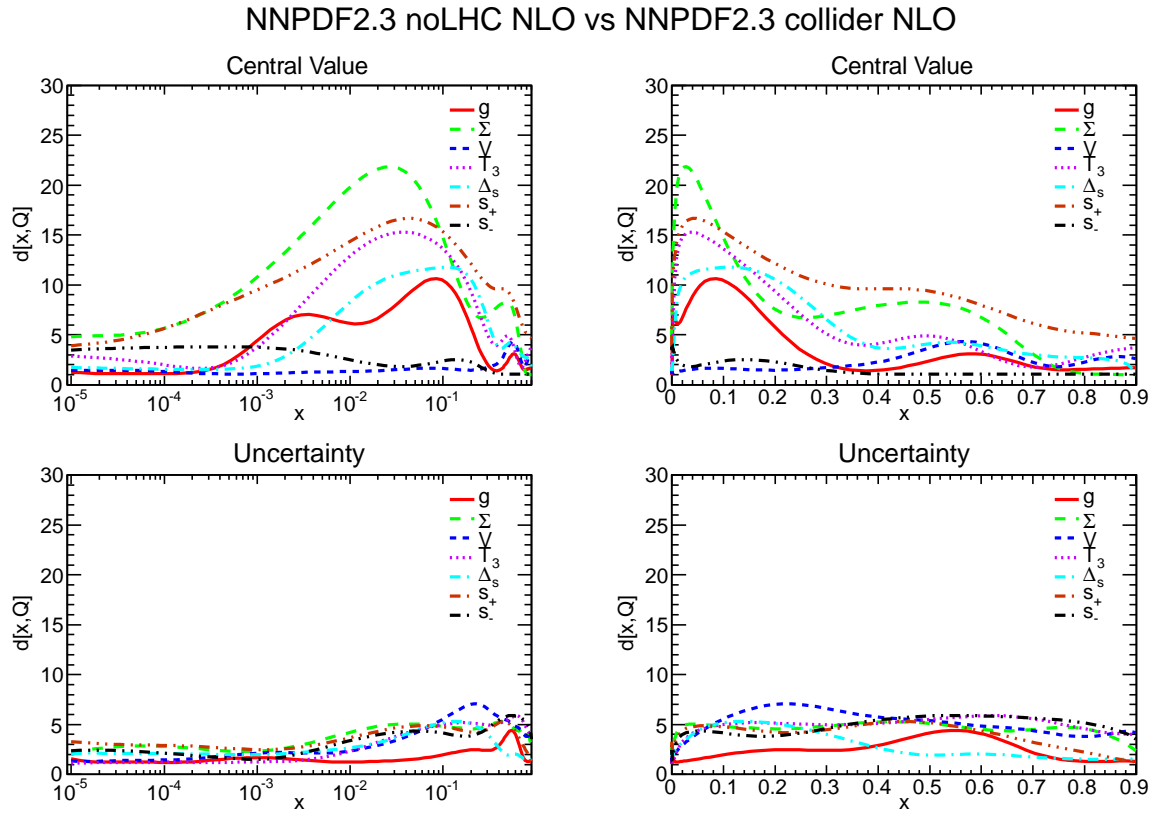
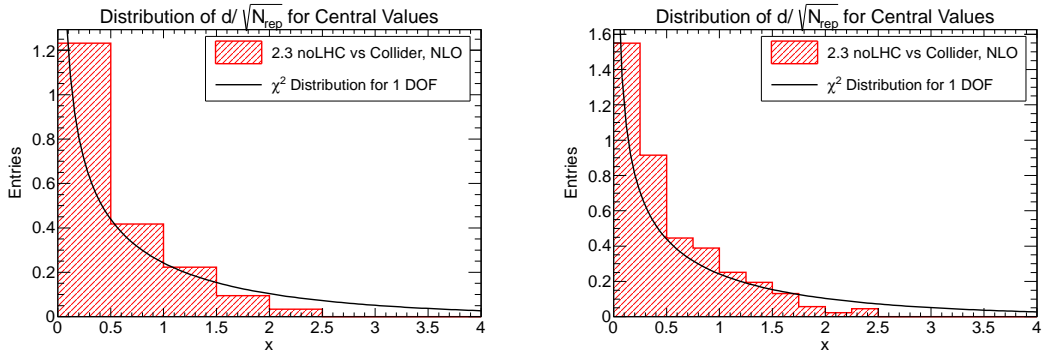
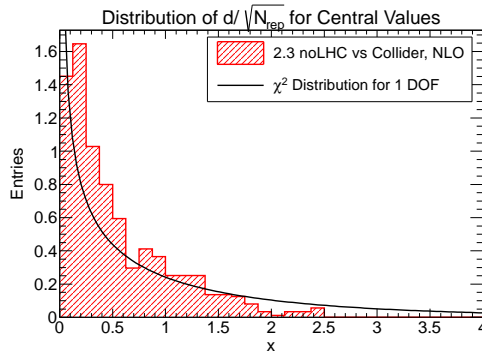


Figure 82: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 83

4.8 NNPDF2.3 noLHC NNLO vs NNPDF2.3 collider NNLO

NNPDF2.3 noLHC NNLO vs NNPDF2.3 collider NNLO

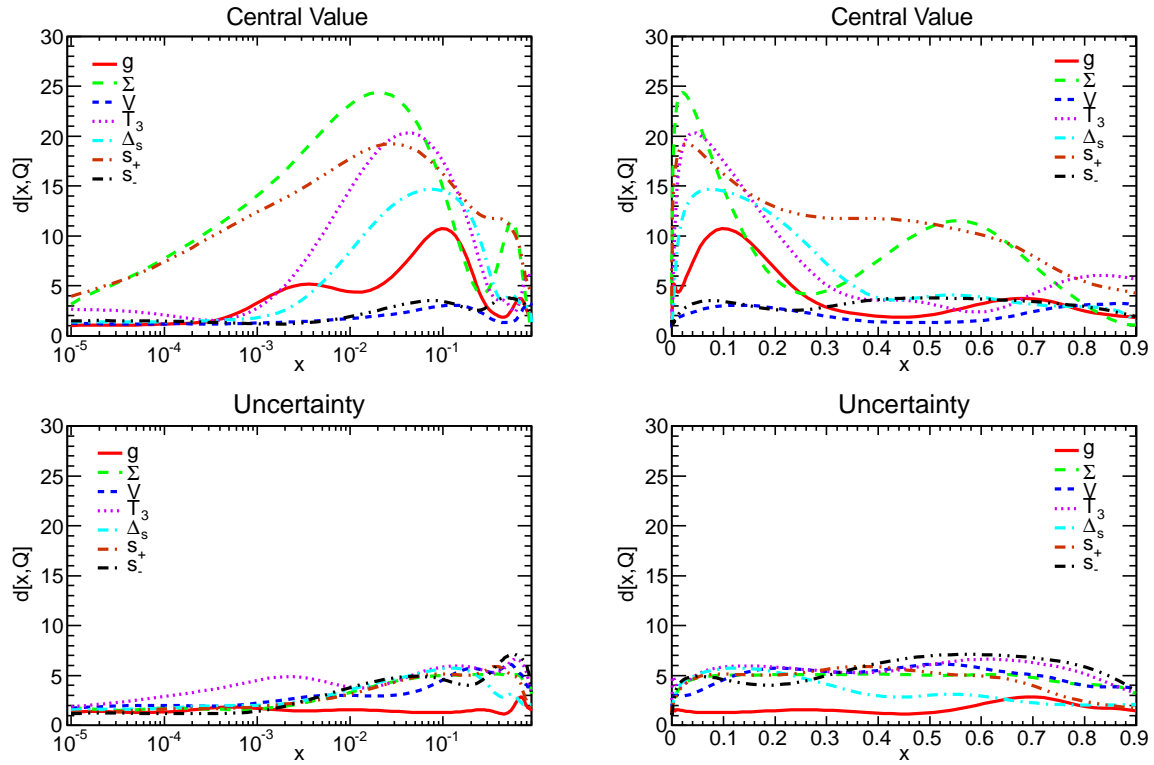
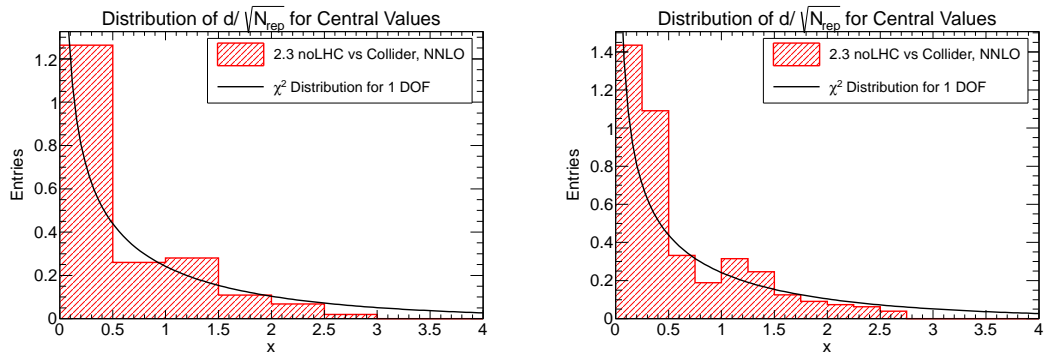
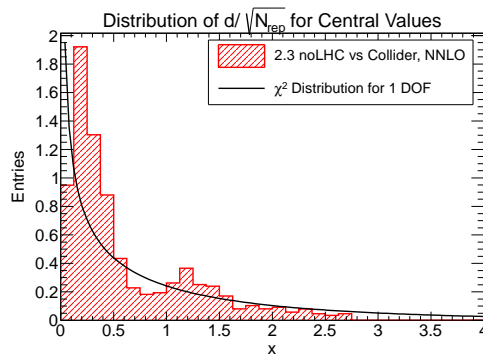


Figure 84: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 85

4.9 NNPDF2.3 noLHC NLO vs NNPDF2.3 NLO

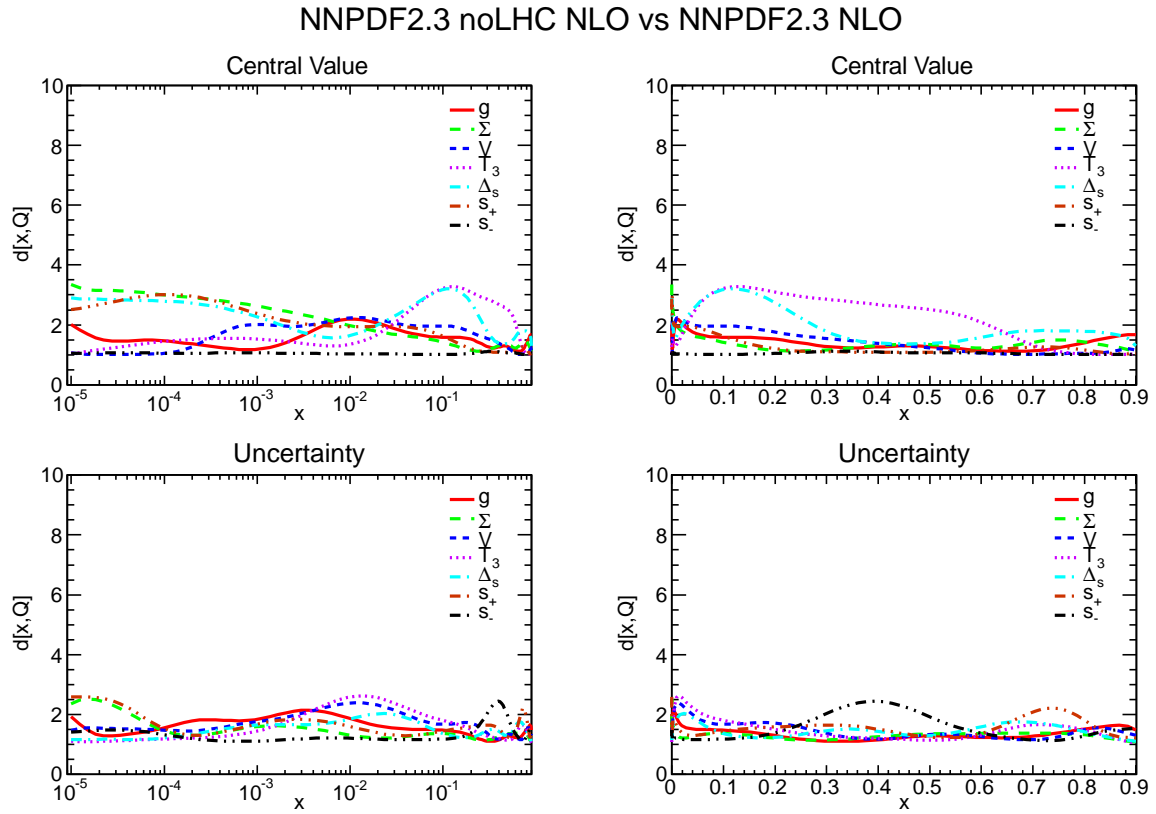


Figure 86: Download (eps, png)

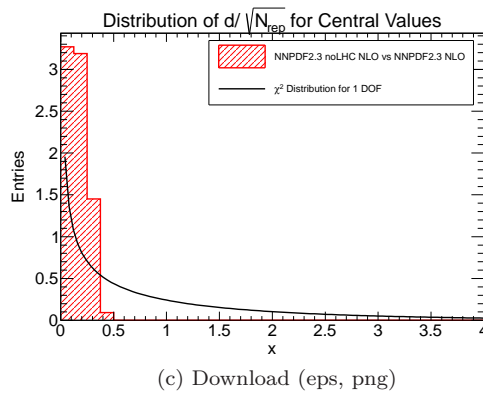
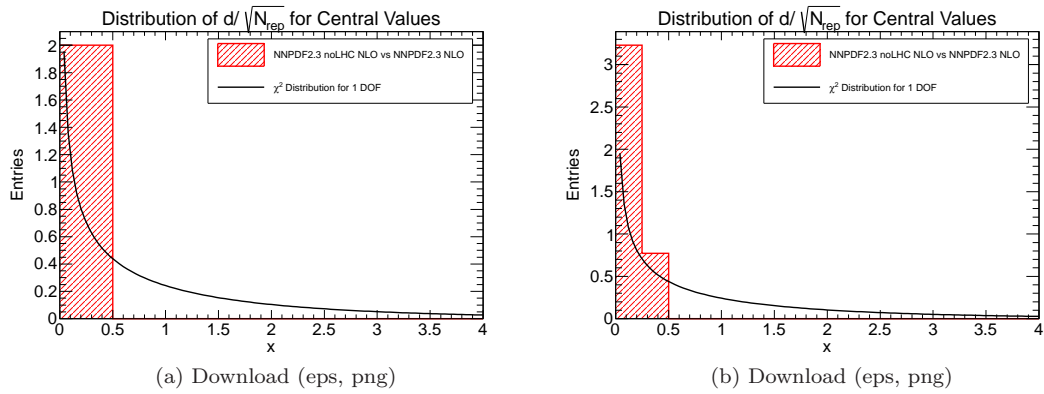


Figure 87

4.10 NNPDF2.3 noLHC NNLO vs NNPDF2.3 NNLO

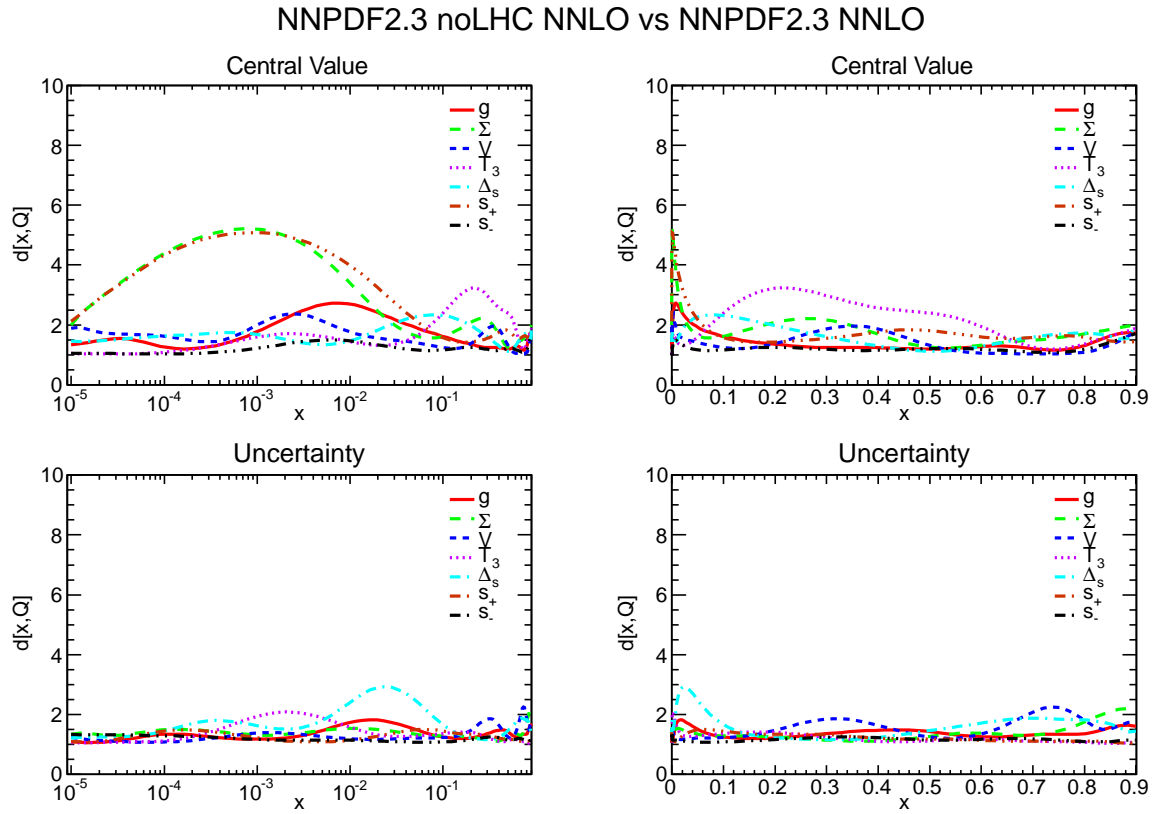
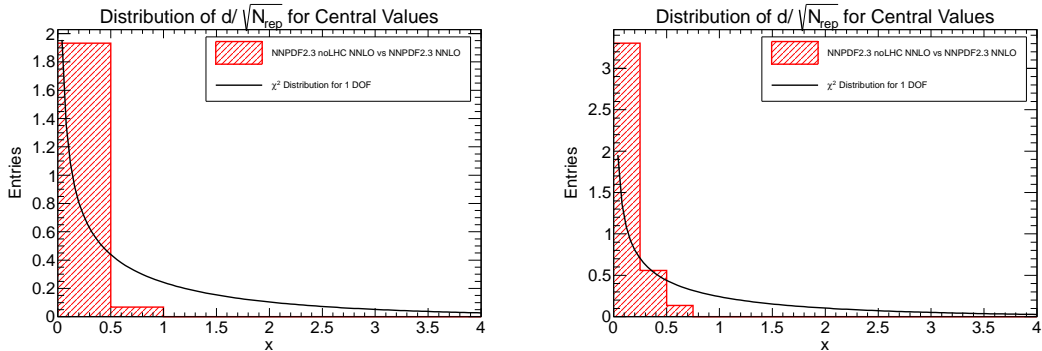
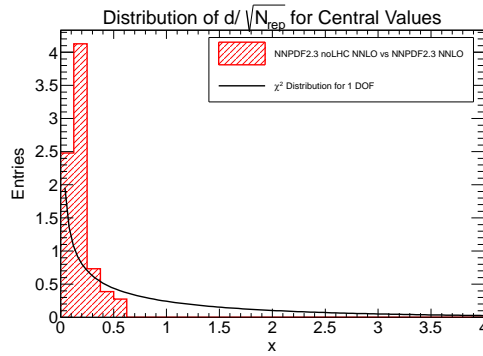


Figure 88: Download (eps, png)



(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)

Figure 89

5 The LHC data

5.1 ATLAS Inclusive jet data with predictions

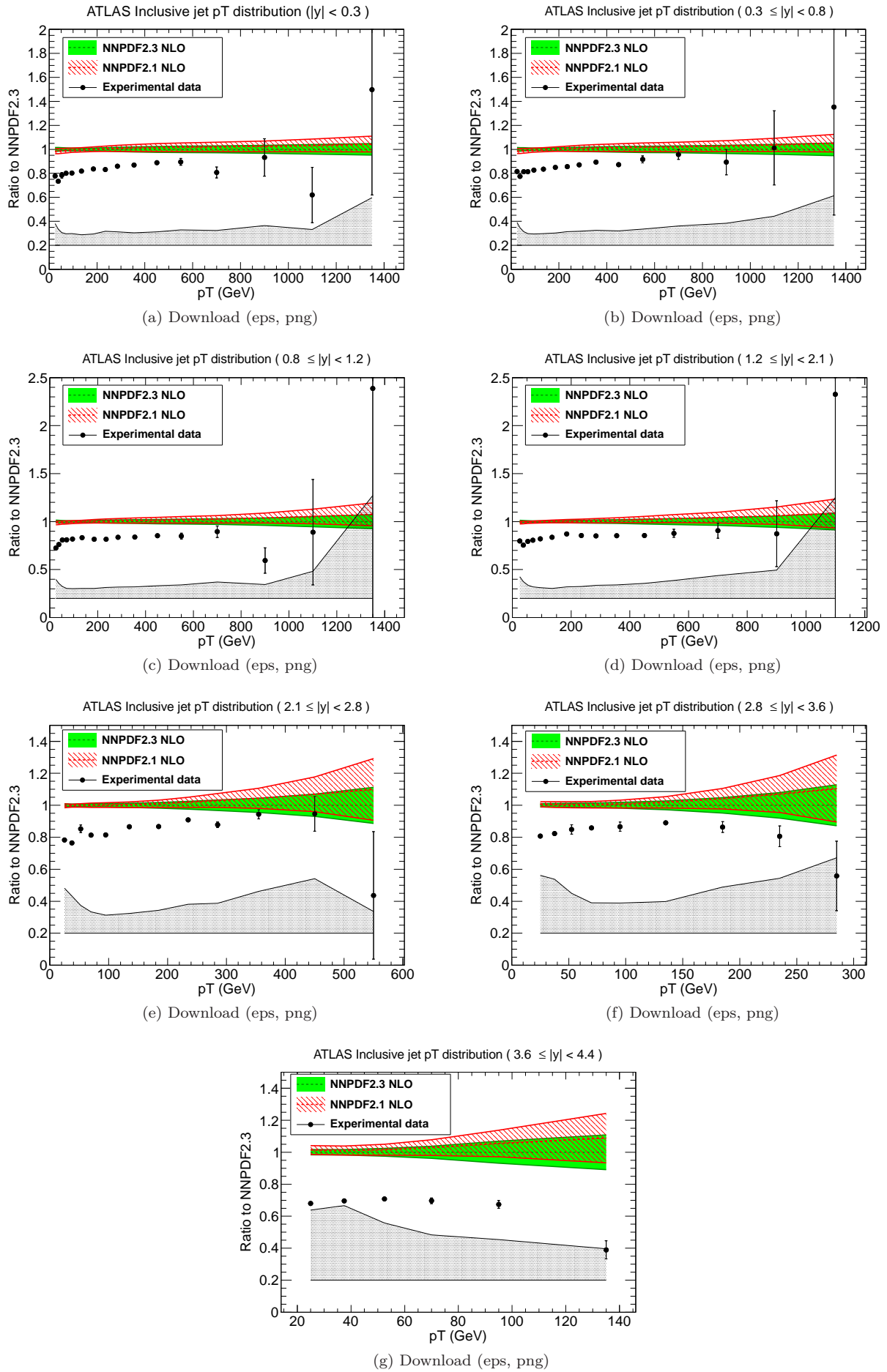


Figure 90

5.2 ATLAS and CMS gauge boson production data with predictions

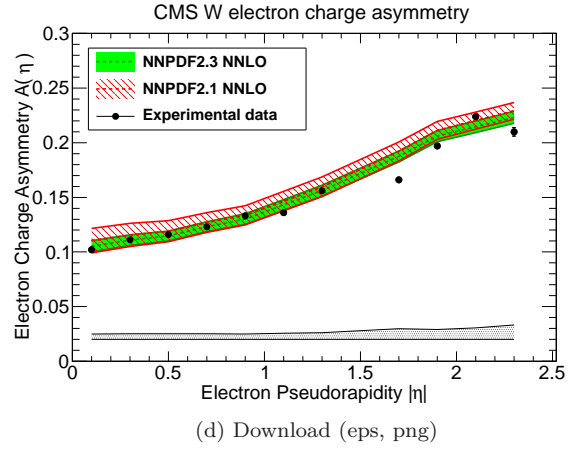
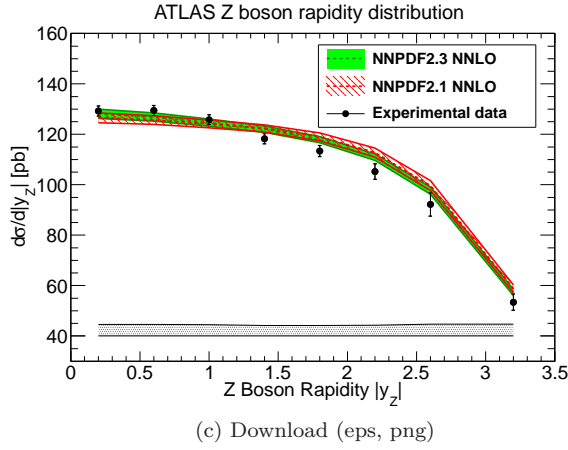
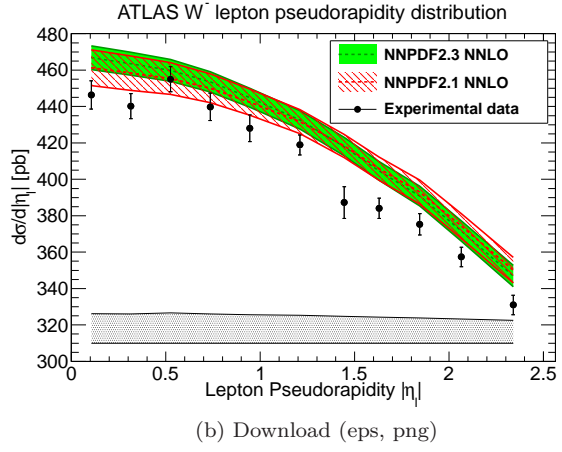
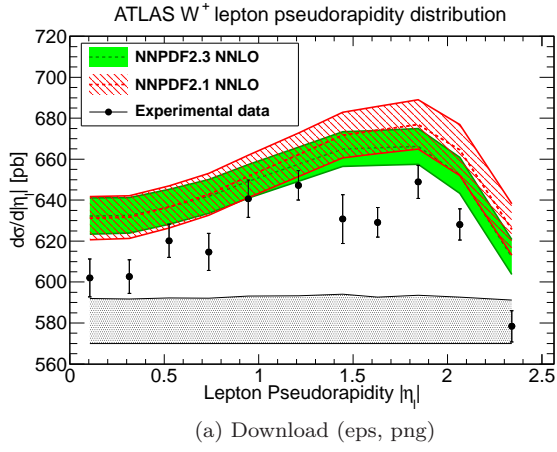


Figure 91

5.3 LHCb electroweak gauge boson production data with predictions

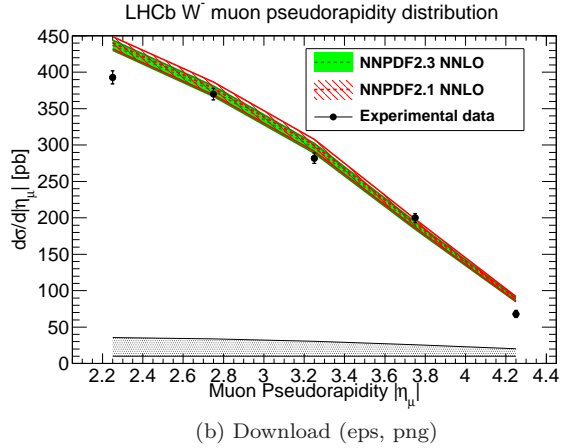
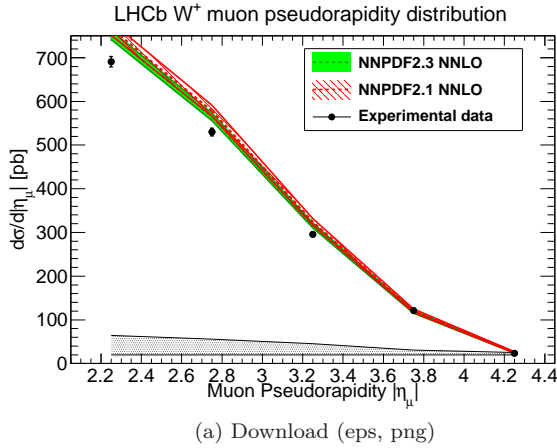


Figure 92

5.4 The $P(\alpha)$ distributions for each of the LHC experiments included in NNPDF2.3

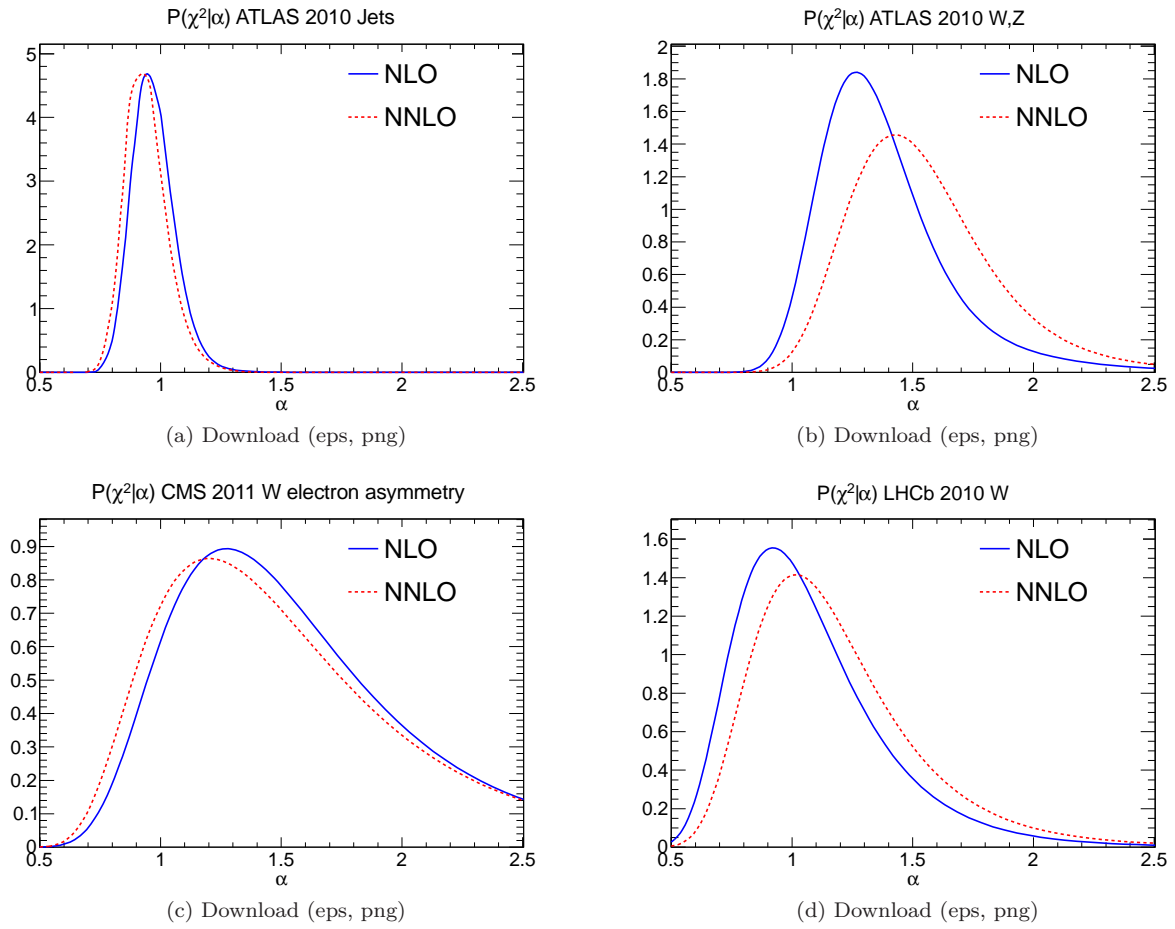


Figure 93

5.5 The strangeness fraction of the proton

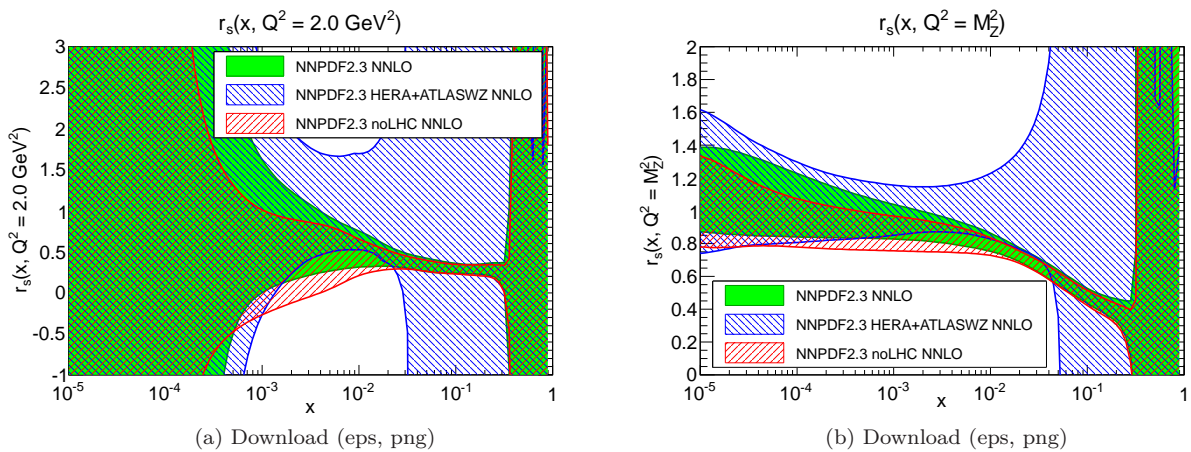


Figure 94

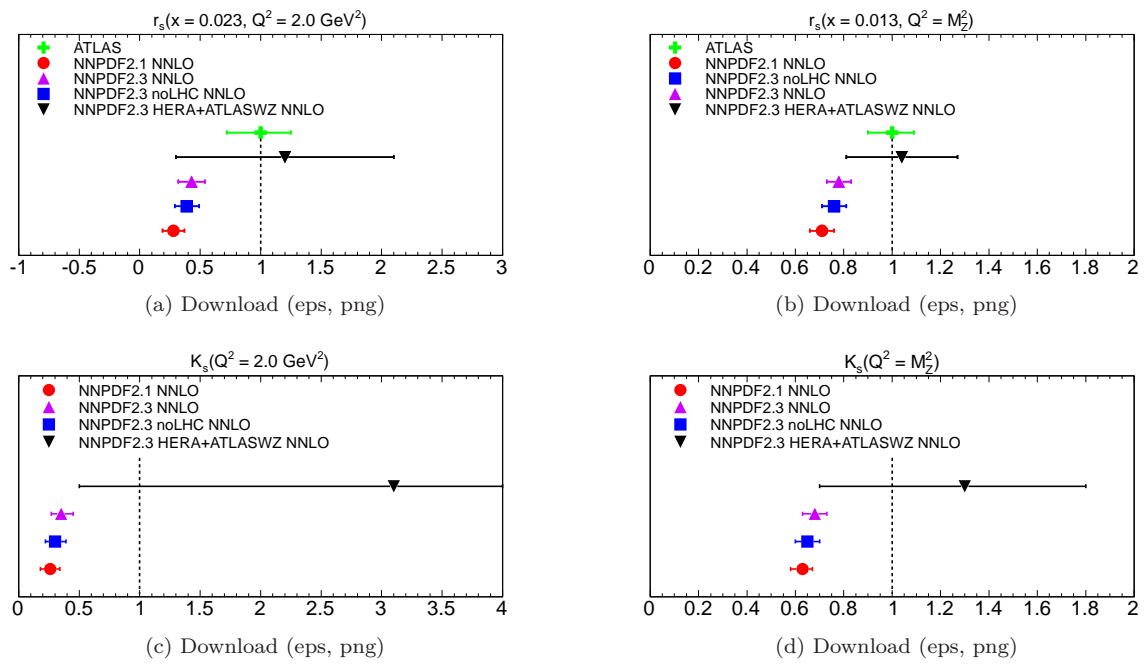


Figure 95

6 Phenomenology

6.1 Parton luminosities

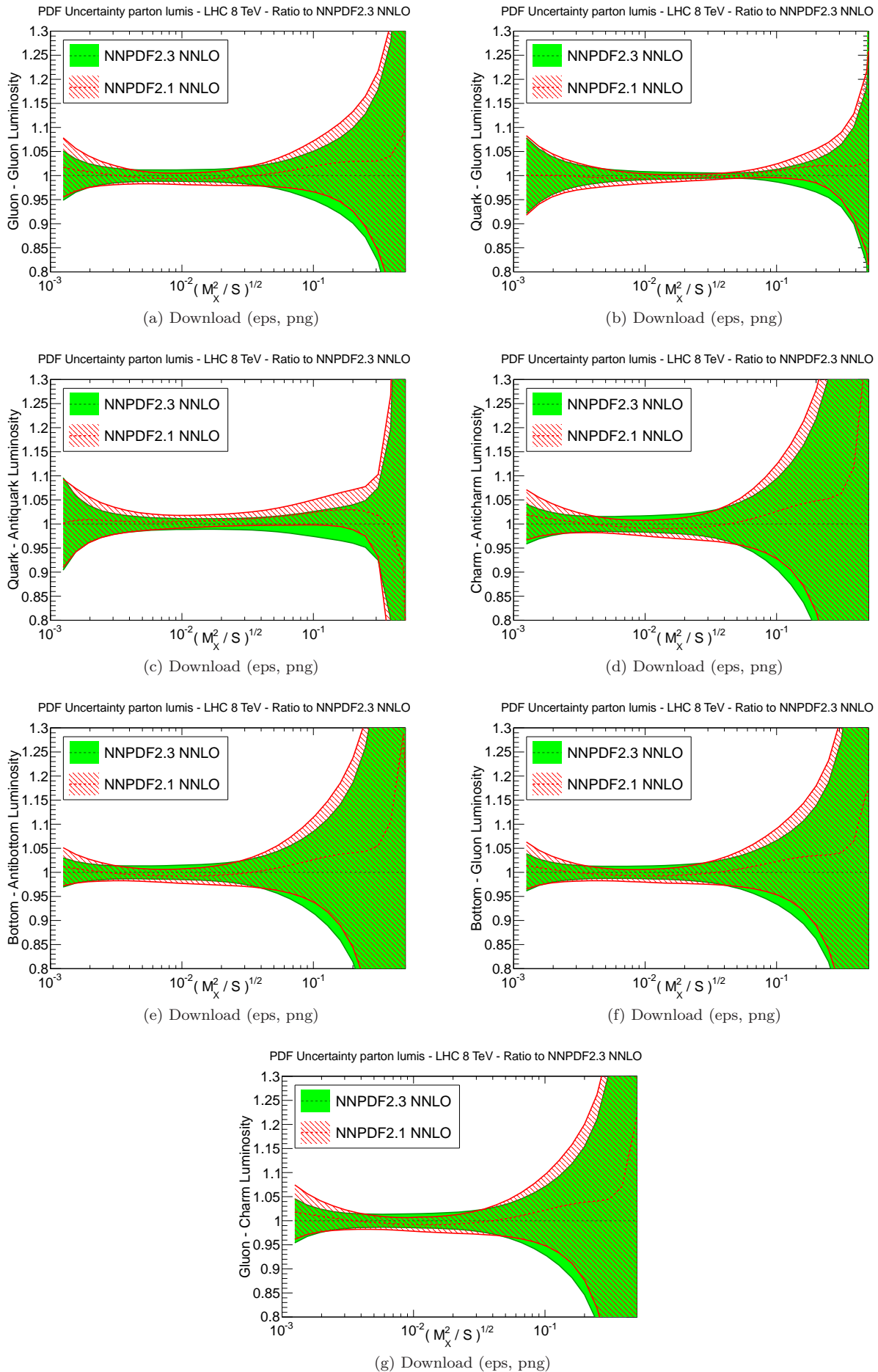
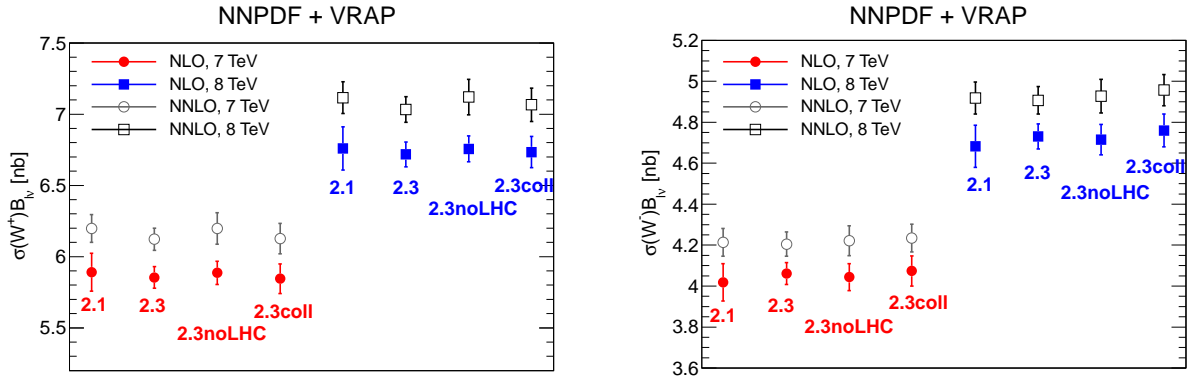


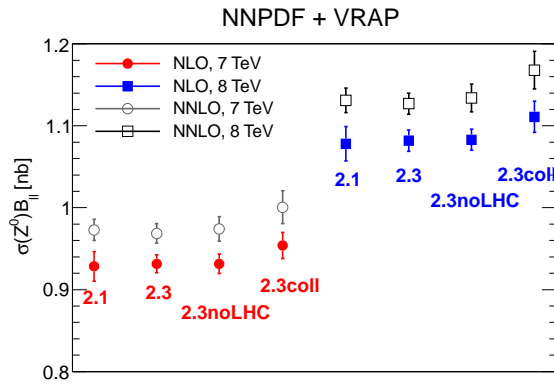
Figure 96

6.2 Total cross-sections

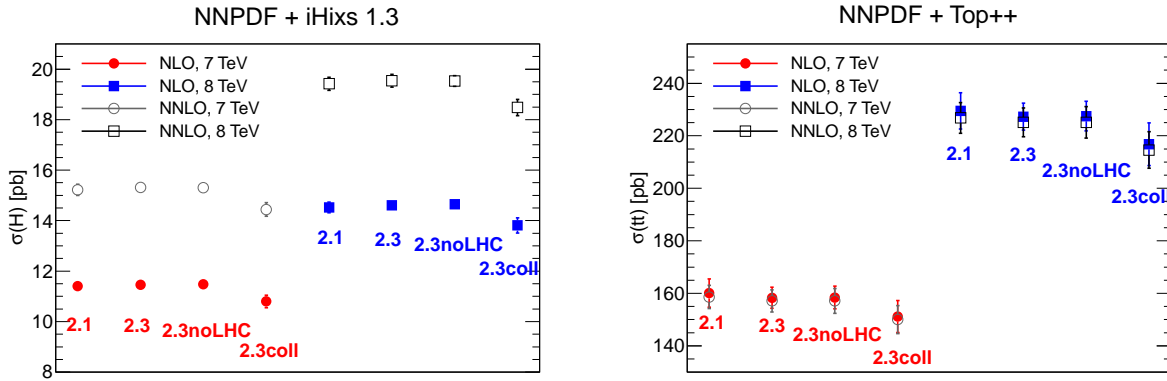


(a) Download (eps, png)

(b) Download (eps, png)



(c) Download (eps, png)



(d) Download (eps, png)

(e) Download (eps, png)

Figure 97