

| | Data | NNPDF3.1 | NNPDF4.0 | CT18 | MSHT20 |
|------------------------------------|---|------------------------------|------------------------------|------------------------------|------------------------------|
| $W^+ \rightarrow \ell^+ \nu$ | $12130 \pm 10_{\text{stat}} \pm 100_{\text{syst}} \pm 200_{\text{lum}}$ | 11540^{+100}_{-130} | 11670^{+70}_{-120} | 11530^{+180}_{-200} | 11430^{+130}_{-150} |
| $W^- \rightarrow \ell^- \bar{\nu}$ | $8910 \pm 10_{\text{stat}} \pm 80_{\text{syst}} \pm 150_{\text{lum}}$ | 8530^{+70}_{-100} | 8640^{+50}_{-90} | 8490^{+130}_{-140} | 8440^{+100}_{-110} |
| $W^\pm \rightarrow \ell^\pm \nu$ | $21040 \pm 10_{\text{stat}} \pm 180_{\text{syst}} \pm 360_{\text{lum}}$ | 20070^{+170}_{-230} | 20310^{+110}_{-200} | 20020^{+310}_{-340} | 19870^{+220}_{-250} |
| $Z \rightarrow \ell^+ \ell^-$ | $2006 \pm 4_{\text{stat}} \pm 18_{\text{syst}} \pm 33_{\text{lum}}$ | 1940^{+15}_{-21} | 1970^{+11}_{-14} | 1921^{+30}_{-33} | 1935^{+23}_{-27} |
| W^+ / W^- | $1.3622 \pm 0.0018_{\text{stat}} \pm 0.0094_{\text{syst}}$ | $1.3536^{+0.0050}_{-0.0044}$ | $1.3508^{+0.0062}_{-0.0038}$ | $1.3571^{+0.0077}_{-0.0077}$ | $1.3539^{+0.0056}_{-0.0056}$ |
| W^\pm / Z | $10.489 \pm 0.024_{\text{stat}} \pm 0.083_{\text{syst}}$ | $10.341^{+0.043}_{-0.040}$ | $10.309^{+0.033}_{-0.042}$ | $10.424^{+0.062}_{-0.060}$ | $10.270^{+0.078}_{-0.074}$ |