

QCD order	EW order	$\sigma_{W+c}^{\text{OS}}$	$\sigma_{W+c}^{\text{SS}}$	$\sigma_{W+c}^{\text{OS-SS}}$	$\Delta_{\text{stat}}^{\text{OS-SS}}$	$\Delta_{\text{scales}}^{\text{OS-SS}}$	$\Delta_{\text{PDF}}^{\text{OS-SS}}$	$\Delta_{\text{Total}}^{\text{OS-SS}}$
LO	LO	137.4	0	137.4	$\pm 0.1$	+16.6 -13.3	$\pm 5.1$	+17.4 -14.3
NLO	LO	182.4	4.1	178.3	$\pm 0.3$	+9.3 -9.4	$\pm 6.8$	+11.6 -11.6
NNLO	LO	182.9	8.2	174.7	$\pm 1.0$	+1.2 -2.8	$\pm 6.8$	+7.0 -7.4
NNLO	NLO	179.1	8.0	171.1	$\pm 1.0$	+1.2 -2.8	$\pm 6.8$	+7.0 -7.4

CMS:  $163.4 \pm 0.5$  (stat)  $\pm 6.2$  (syst) pb