

Source	Uncertainty	$1\ell$		SS $2\ell$		$\geq 3\ell$	
		Sig	Bkgd	Sig	Bkgd	Sig	Bkgd
Integrated Luminosity	2.5%	Yes	MC	Yes	MC	Yes	MC
Reconstruction	1%	Yes	MC	Yes	MC	Yes	MC
Identification	2%(e), 3%( $\mu$ )	Yes	MC	Yes	MC	Yes	MC
Isolation (e, $\mu$ )	1%	Yes	MC	Yes	MC	Yes	MC
Trigger (e or $\mu$ )	$\pm\sigma(p_T, \eta)$	Yes	MC	–	–	–	–
Trigger ( $\ell\ell$ )	3%	–	–	Yes	MC	–	–
Trigger ( $\ell\ell\ell$ )	3%	–	–	–	–	Yes	MC
Charge misid. rate	30%	–	–	No	OS	–	–
$\ell$ misid. rate	50%	–	–	No	NP	–	–
$\ell$ misid. rate	4–30%	–	–	–	–	No	NP
$\ell$ misid. rate in $\eta(\mu)$	12–33%	–	–	–	–	No	NP
NP method closure	17–31%	–	–	–	–	No	NP
NP method in CR	2–35%	–	–	–	–	No	NP
$\ell$ prompt rate	2–9% (e), 1–7% ( $\mu$ )	–	–	–	–	No	NP
Pileup	$\sigma_{\text{inel.}} \pm 4.6\%$	Yes	MC	Yes	MC	Yes	MC
Jet energy scale	$\pm\sigma(p_T, \eta)$	Yes	MC	Yes	MC	Yes	MC
Jet energy res.	$\pm\sigma(\eta)$	Yes	MC	Yes	MC	Yes	MC
$H_T$ scaling	env(upper, lower fits)	No	W+jets	–	–	–	–
b tag: b	$\pm\sigma(p_T)$	Yes	MC	–	–	Yes	MC
b tag: light	$\pm\sigma$	Yes	MC	–	–	Yes	MC
W tag: $\tau_2/\tau_1$	$\pm\sigma$	Yes	MC	–	–	–	–
W tag: $\tau_2/\tau_1 p_T$	$\pm\sigma(p_T)$	Yes	MC	–	–	–	–
W/H tag: mass scale	$\pm\sigma(p_T, \eta)$	Yes	MC	–	–	–	–
W/H tag: mass res.	$\pm\sigma(\eta)$	Yes	MC	–	–	–	–
H tag: propagation	5%	Yes	MC	–	–	–	–
Renorm./Fact. scale	env( $\times 2, \times 0.5$ )	Shape	MC	Accept.	MC	Shape	MC
PDF	RMS(replicas)	Shape	MC	Accept.	MC	Shape	MC
VV rate	15%	No	VV	–	–	–	–
Single tW rate	16%	No	tW	–	–	–	–