

SYSTEMATICS

systematic uncertainty	correlation	$ee(CEM) + \ell$		$ee(PLUG) + \ell$		$e\mu + \ell$		$\mu\mu + \ell(\text{high pt})$		$\mu e(CEM) + \ell$		$\mu e(PLUG) + \ell$		$ee + track$		$\mu\mu + \ell(\text{low pt})$	
		signal	background	signal	background	signal	background	signal	background	signal	background	signal	background	signal	background	signal	background
Luminosity	100%	6%	4.9%	6%	4.7%	6%	5.0%	6%	4.0%	6%	4.0%	6%	5.0%	6%	6.0%	6%	1.0%
PDFs	100%	0.8%	2.2%	0.8%	2.2%	0.9%	2.4%	1.0%	3.0%	1.0%	2.0%	1.0%	2.0%	1.0%	2.8%	1.0%	0.4%
ISR/FSR	100%	4.5%	3.3%	12.0%	3.2%	6.8%	3.3%	2.0%	4.0%	2.0%	4.0%	2.0%	4.0	3.9%	5.0%	2.0%	4.0%
Jet Energy Scale	100%	1.7%	4.7%	2.5%	3.5%	3.0%	2.3%	3.0%	6.0%	0.3%	7.0%	0.0%	2.0%	1.0%	11.1%	0.0%	0.02%
Electron ID	100%	3.6%	2.5%	2.2%	6.8%	1.6%	1.7%	3.0%	5.0%	2.0%	4.0%	5.0%	14.0%	2.9%	1.1%	6.0%	1.0%
Muon ID	100%	0.8%	0.7%	0.5%	0.5%	2.1%	1.2%	5.0%	4.0%	7.0%	4.0%	5.0%	4.0%			13.0%	3.0%
Z Pt Reweight	100%	-	3.2%	-	3.7%	-	-	-	-	-	-	-	-	-	-	-	-
Lepton Fake Rate	100%	-	9.0%	-	10.5%	-	8.5%	-	16.0%	-	13.0%	-	8.0%	-	-	-	24.0%
Trigger Efficiency	100%	0.4%	0.3%	0.4%	0.3%	0.4%	0.3%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.2%	0.2%	0.5%	0.1%
Track Fake Rate	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	12.7%	-	-
Conversion Scale Factor	100%	6.1%	4.8%	2.2%	3.7%	1.3%	0.3%	-	10.0%	-	7.0%	-	-	-	-	-	-
Heavy Flavour Background Method																	3.0%
Theory Cross Section	100%	10%	5.9%	10%	5.5%	10%	6.0%	10%	8.0%	10%	4.0%	10%	7.0%	10%	3.9%	10%	1.0%
Background Scaling Method	100	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Monte Carlo Statistics	100%	6.8%	13.6%	12.3%	26.5%	7.9%	28.6%	6.0%	17.2%	7.0%	11.9%	10.0%	13.9%	10.0%	23.0%	7.6%	14.3%