

Channel / Source	ee signal (%)	ee bkgd. (%)	$e\mu$ signal (%)	$e\mu$ bkgd. (%)
<u>Simulation:</u>				
SM cross section	—	9-25 (9-25)	—	9-25 (9-25)
Jet energy scale	6-8 (1-3)	5 (7)	4-8 (1-2)	8 (7)
Jet energy resolution	3-7 (2-3)	10 (7)	3-10 (2-3)	10 (6)
Event pileup	2-3 (0-2)	4 (1)	2-3 (0-2)	3 (2)
Unclustered energy	1-3 (1-2)	4 (5)	1-3 (1-2)	5 (1)
Integrated luminosity	2.6 (2.6)	2.6 (2.6)	2.6 (2.6)	2.6 (2.6)
Lepton selection	2 (2)	2 (2)	2 (2)	2 (2)
Trigger selection	6 (6)	6 (6)	6 (6)	6 (6)
b tagging	0-1 (1-2)	2 (1)	0-1 (1-2)	1 (1)
PDF (shape)	2.0 (2.0)	—	2.0 (2.0)	—
PDF (rate)	3.5 (3.5)	—	3.5 (3.5)	—
Renormalization / factorization scales	8-10 (1-6)	—	8-10 (1-6)	—
Signal MC statistical uncertainty	5-15 (1-6)	—	3-7 (1-3)	—
<u>Data-Driven:</u>				
Misidentified leptons	—	40 (40)	—	35 (35)
Mismeasured charge	—	12 (12)	—	12 (12)