

Systematic source	Z + jets [%]	$\gamma$ + jets [%]	Z + jets/ $\gamma$ + jets [%]	collinear region [%]
Trigger	0.0 – 0.1	0.2 – 2.2	0.2 – 2.2	0.5 – 0.8
Muon reconstruction and selection	0.8 – 1.0	—	0.8 – 1.0	0.7 – 1.8
Photon reconstruction and selection	—	2.6	2.6	—
Photon energy scale	—	0.3 – 9.8	0.3 – 9.8	—
Muon momentum scale	1.7 – 21.9	—	1.7 – 21.9	0.0 – 8.3
Photon purity	—	0.2 – 1.1	0.2 – 1.1	—
Background yields	0.5 – 1.6	—	0.5 – 1.6	1.1 – 10.2
Pileup	0.0 – 0.8	0.0 – 0.3	0.0 – 0.3	0.1 – 0.8
Luminosity	2.5	2.5	0.0 – 0.1	2.5
Unfolding	0.3 – 18.6	1.1 – 6.4	1.2 – 19.6	1.7 – 19.8
Jet energy scale/resolution	0.0 – 0.2	0.1 – 0.5	0.0	0.5 – 1.4
Total	3.3 – 28.9	4.0 – 11.6	3.5 – 39.3	3.7 – 21.0