

Source of systematic uncertainty	Type	Impact on $4\ell\gamma$	Impact on $ZZ\gamma$
QCD scale	norm.	5.0 %	1.0 %
α_S	norm.	1.3 %	0.3 %
pdf	norm.	1.4 %	0.9 %
Trigger	norm.	1.0 %	1.0 %
Pileup	norm.	2.5 %	2.3 %
Luminosity	norm.	2.7 %	2.7 %
Muon efficiency	norm.	1.0 %	1.0 %
Electron efficiency	norm.	4.4 %	4.4 %
Photon efficiency	norm.	2.0 %	2.1 %
Photon energy scale	norm.	0.2 %	0.1 %
γ misidentif. rate	norm.	2.2 %	-
Non-prompt ℓ norm.	norm.	-	1.8 %
Non-prompt γ norm.	norm.	3.7 %	4.7 %
Non-prompt γ shape	shape	3.6 %	-