

Sources of Systematical Uncertainties	Type	Value
General uncertainties		
Integrated luminosity	Normalization	2.5%
Photon related uncertainties		
Photon energy scale ($\frac{\Delta M(\gamma\gamma)}{M(\gamma\gamma)}$)	Shape	1.0%
Photon energy resolution ($\frac{\Delta\sigma_{\gamma\gamma}}{\sigma_{\gamma\gamma}}$)	Shape	1.0%
Diphoton selection (with trigger uncertainties and PES)	Normalization	2.0%
Photon Identification	Normalization	1.0%
Jet related uncertainties		
Jet energy scale ($\frac{\Delta M(jj)}{M(jj)}$)	Shape	1.0%
Jet energy resolution ($\frac{\Delta\sigma_{jj}}{\sigma_{jj}}$)	Shape	5.0%
Dijet selection (JES)	Normalization	0.5%
Resonant specific uncertainties		
Mass window selection	Normalization	3.0%
Classification MVA (high purity)	Normalization	2.5%
Classification MVA (medium purity)	Normalization	1.5%
Nonresonant specific uncertainties		
\tilde{M}_χ Classification	Normalization	0.5%
Classification MVA (high purity)	Normalization	5%
Classification MVA (medium purity)	Normalization	2.0%