

Source	Type	Effect [%]	Comment
Luminosity	norm.	1–3	
Lepton veto	norm.	0.5	
AK8 JES	norm.	2	
AK8 JER	norm.	2	
GNN tagger efficiency	norm.	50–80	Affects signal only
PDF	norm.	10	Affects signal only
Scale variations	norm.	5	Affects signal only
QCD TF	norm.	5–8	Per-bin statistical uncertainty
$W + \text{jets}$ TF	norm.	5–8	Per-bin statistical uncertainty
$Z \rightarrow \nu\nu$ TF	norm.	5–8	Per-bin statistical uncertainty
$p_{\text{T}}^{\text{miss}}$ unclustered	shape	1–3	Fully correlated across all bins
$p_{\text{T}}^{\text{miss}}$ JES/JER	shape	1–3	Fully correlated across all bins