

Observable/Uncertainty (%)	$p_{\text{T}}^{\text{b1}}$	$p_{\text{T}}^{\text{b2}}$	$ \eta ^{\text{b1}}$	$p_{\text{T}}^{\text{Z}}$	$\Delta R_{\text{bb}}$	$\Delta R_{\text{Zbb}}^{\text{min}}$	$A_{\text{Zbb}}$	$m_{\text{Zbb}}$	$m_{\text{bb}}$
Statistical	8.6–15.5	7.0–37.6	6.2–11.9	6.2–25.3	5.6–29.2	5.3–43.5	4.5–25.0	8.1–22.1	11.3–25.9
JES, JER	6.0–12.8	5.1–14.3	6.8–8.2	5.6–14.8	5.9–14.9	4.5–23.8	4.3–13.2	4.8–13.7	4.2–17.5
b tagging/mistagging	4.4–7.7	4.3–9.2	4.3–6.2	4.1–13.7	3.5–6.4	3.8–14.5	5.3–7.3	4.2–7.2	4.5–6.6
Unclustered energy of $p_{\text{T}}^{\text{miss}}$	1.3–6.8	2.1–8.0	2.7–4.2	3.1–6.8	1.1–5.0	0.7–4.8	2.1–4.8	2.1–5.1	1.3–8.4
Background simulation	0.6–3.7	0.8–4.9	1.0–2.9	0.6–3.8	0.5–3.0	0.5–3.8	1.9–3.1	0.6–4.1	1.1–3.5
Pileup reweighting	1.4–4.1	1.6–6.8	1.7–2.7	1.6–3.3	1.9–3.1	0.9–3.9	1.7–4.3	1.7–3.2	1.5–3.5
Electron selection	0.9–1.7	1.1–2.0	1.2–1.5	0.9–1.7	0.7–1.5	0.5–1.8	1.1–1.6	1.0–1.8	0.9–1.6
Muon selection	0.5–0.8	0.5–0.9	0.7–3.3	0.4–0.9	0.5–0.8	0.5–0.8	0.6–0.8	0.5–0.9	0.6–0.8
Pileup jet identification	0.6–1.2	0.5–1.0	0.8–0.9	0.7–0.9	0.8–1.1	0.8–0.9	0.7–0.8	0.7–1.1	0.6–1.0
$\mu_{\text{R}}$ and $\mu_{\text{F}}$ scales	0.5–3.2	0.7–4.6	1.8–4.7	0.7–4.5	0.6–4.1	0.7–4.7	1.3–4.9	1.7–3.8	1.1–4.8
PDF	0.5–0.8	0.5–1.4	0.5–0.7	0.5–1.1	0.5–2.5	0.5–4.0	0.5–0.9	0.5–0.8	0.5–0.9
$\alpha_{\text{S}}$	0.5	0.5	0.5	0.5	0.5–1.6	0.5–0.9	0.5	0.5	0.5