

| Uncertainty source | g | | R_g | |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|
| | pp | PbPb | pp | PbPb |
| Physics model dependence | 1.3–7.5 | 1.2–2.5 | 0.2–5.3 | 0.9–5.4 |
| Regularization bias | 0.1–0.7 | $\lesssim 0.1$ –1.2 | $\lesssim 0.1$ | $\lesssim 0.1$ |
| Photon PF energy scale | 0.4–1.5 | 1.8–5.1 | 0.2–0.6 | 0.1–2.9 |
| Charged hadron PF energy scale | 0.6–4.1 | 0.5–5.3 | $\lesssim 0.1$ –0.5 | $\lesssim 0.1$ –1.6 |
| Neutral hadron PF energy scale | 0.1–1.5 | 0.2–5.3 | 0.1–0.5 | 0.3–2.4 |
| JES | 0.2–3.3 | 0.2–2.6 | 0.1–1.5 | 0.3–3.3 |
| JER | $\lesssim 0.1$ –2.0 | $\lesssim 0.1$ –3.7 | $\lesssim 0.1$ –0.2 | 0.1–1.8 |
| Centrality | — | 0.6–4.0 | — | $\lesssim 0.1$ –2.4 |
| Photon background subtraction | 0.1–0.3 | $\lesssim 0.1$ | $\lesssim 0.1$ –0.2 | $\lesssim 0.1$ |
| Response matrix statistical | 1.0–2.9 | 1.4–4.5 | 0.9–2.2 | 1.4–3.6 |
| Total systematic | 2.2–9.8 | 2.7–10.7 | 1.3–6.0 | 2.7–8.5 |
| Total statistical | 1.4–3.5 | 3.5–7.6 | 1.4–2.5 | 3.6–6.4 |