

Uncertainty in $\mathcal{B}(Z \rightarrow 4\ell)$ (%)

Source

 4μ $2\mu 2e$ $4e$

Muons identification

2

1

0

Electron identification

0

1–2

3–4

Electron reconstruction

0

1–3

2–6

Background (statistical)

<1

1–6

2–6

Background (systematic)

<1

1–5

1

Trigger efficiency

0.2–2

1–1.5

1–2

Pileup distribution

0.5–1

0.5–1

0.5–1

QCD μ_R and μ_F scales

0.8

0.8

0.8

PDF sets

0.6

0.6

0.6