

LHCb $\sqrt{s} = 5.02$ TeV, 100 pb^{-1}

$p_T(\mu) > 20 \text{ GeV}/c$

$2.0 < \eta(\mu) < 4.5$

$60 < M_{\mu\mu} < 120 \text{ GeV}/c^2$



Stat. Uncertainty



Total Uncertainty (without Lumi)



Total Uncertainty

$$\sigma_{Z \rightarrow \mu^+\mu^-} = 39.6 \pm 0.7 \text{ (stat)} \pm 0.6 \text{ (syst)} \pm 0.8 \text{ (lumi)} \text{ pb}$$

