$50 < p_{_{\mathrm{T}}} < 55$ GeV, 2.1 < $|\eta| < 2.4$ ×10³ -- data -- data GeV - Z → μμ + BG $Z \rightarrow \mu \mu$ + BG Fail Region **Pass Region** - BG --- BG Events / 1 Events / 1 16 $\epsilon = 0.9625 \pm 0.0013$ 500 10 400 300 200 100 80 75 85 90 100 105 110 115 80 105 110 115 100 $m_{\mu\mu}$ (GeV) $m_{\mu\mu}~(GeV)$