$50 < p_{_{\mathrm{T}}} < 55$ GeV, $0.9 < |\eta| < 1.2$ ×10³ -- data -- data GeV > F 500 F — Z → μμ + BG $-Z \rightarrow \mu\mu + BG$ 25 **Pass Region** Fail Region BG --- BG Events / 1 Events / 1 $\epsilon = 0.9788 \pm 0.0000$ 15 300 10 200 100 75 80 90 105 110 115 105 110 115 100 100 $m_{\mu\mu}$ (GeV) $m_{\mu\mu}~(GeV)$