$45 < p_{_{\rm T}} < 50$ GeV, 2.1 < $|\eta| < 2.4$ ×10³ -- data -- data Events / 1 GeV **–** Z → μμ + BG $Z \rightarrow \mu \mu$ + BG **Pass Region** Fail Region - BG --- BG Events / 1 20 18 ϵ = 0.9876 ± 0.0003 16 200 14 12 150 10 100 50 80 75 85 100 105 110 115 110 115 70 100 105 $m_{\mu\mu}~(GeV)$ $m_{\mu\mu}$ (GeV)

GeV