$45 < p_{_{\rm T}} < 50$ GeV, 2.1 < $|\eta| < 2.4$ ×10³ ×10³ -- data -- data GeV Events / 1 GeV **–** Z → μμ + BG $Z \rightarrow \mu \mu$ + BG **Pass Region** Fail Region BG --- BG Events / 1 60 $\varepsilon = 0.9608 \pm 0.0004$ 50 40 1.5 30 20 0.5 10 80 70 75 85 90 95 100 105 110 115 70 80 90 100 105 110 115 $m_{\mu\mu}$ (GeV)

 $m_{\mu\mu}$ (GeV)