$50 < p_{_{\mathrm{T}}} < 55$  GeV, 2.1 <  $|\eta| < 2.4$ ×10<sup>3</sup> -- data -- data GeV  $-Z \rightarrow \mu\mu + BG$  $Z \rightarrow \mu \mu$  + BG **Pass Region Fail Region** Events / 1 0 - BG --- BG Events / 1  $\epsilon = 0.9863 \pm 0.0000$ 200 15 150 10 100 50 80 75 105 110 115 100 105 100  $m_{\mu\mu}$  (GeV)  $m_{\mu\mu}~(GeV)$