$45 < p_{_{\rm T}} < 50$ GeV, 2.1 < $|\eta| < 2.4$ ×10³ -- data -- data GeV 350 - Z → μμ + BG $Z \rightarrow \mu \mu$ + BG **Pass Region Fail Region** - BG --- BG Events / 1 Events / 1 18 $\varepsilon = 0.9842 \pm 0.0000$ 16 250 14 200 10 150 100 50 80 75 85 90 95 100 105 110 115 80 100 105 110 115 $m_{\mu\mu}~(GeV)$ $m_{\mu\mu}$ (GeV)