$\mathbf{29} < \mathbf{p}_{_{\mathrm{T}}} < \mathbf{30}$  GeV,  $\mathbf{2.1} < |\boldsymbol{\eta}| < \mathbf{2.4}$ ×10<sup>3</sup> ×10<sup>3</sup> -- data -- data Events / 1 GeV Events / 1 GeV — Z → μμ + BG  $Z \rightarrow \mu \mu$  + BG **Pass Region** Fail Region 3.5 BG --- BG  $\epsilon$  = 0.7372 ± 0.0029 2.5 1.5 0.5 70 80 85 90 95 100 105 110 115 70 80 90 100 105 110 115 75

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

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