$\mathbf{28} < \mathbf{p}_{_{\mathrm{T}}} < \mathbf{29} \; \mathrm{GeV}, \, \mathbf{0.9} < |\boldsymbol{\eta}| < \mathbf{1.2}$ ×10³ ×10³ -- data -- data Events / 1 GeV Events / 1 GeV - Z $\rightarrow \mu\mu$ + BG $Z \rightarrow \mu \mu$ + BG **Pass Region** Fail Region BG --- BG $\epsilon = 0.8683 \pm 0.0018$ 10 1.5 0.5

95

90

100

105 110 115

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

70

80

85

90

95

100

105 110 115

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