$31 < p_{_{
m T}} < 32~{
m GeV},\, 1.2 < |\eta| < 2.1$ ×10³ ×10³ -- data -- data GeV Events / 1 GeV — Z → μμ + BG $Z \rightarrow \mu \mu$ + BG 18 Fail Region **Pass Region** 3.5 - BG --- BG Events / 1 16 ϵ = 0.8256 \pm 0.0011 2.5 10 1.5 0.5

70

75

80

90

95

100

105

110 115

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

70

80

75

85

90

95

100

105 110 115

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