$55 < p_{_{T}} < 60~GeV,\, 1.479 < |\eta| < 1.653$ $\times 10^3$ -- data -- data GeV Events / 1 GeV - Z \rightarrow ee + BG Z → ee + BG **Pass Region Fail Region** -- BG --- BG Events / 1 ϵ = 0.7684 ± 0.0000 200 0.8 150 0.6 100 0.4 50 0.2

70

105 110 115

m_{ee} (GeV)

100

100

105 110 115

m_{ee} (GeV)