MicroBooNE 4.5e+19 POT, INTERNAL 1.0 1750 -Toy v_{μ} CC Efficiency 62.1%, Purity: 61.0% BNB On (data) Data/MC ratio: 0.97 BNB Off (data) 8.0 1500 ν bkg (MC) ν CC (MC) 1250 per bin Efficiency 9.0 9.0 ν out-TPC (MC) 1000 ν dirt (MC) Events _| 750 -500 0.2 250 -0.0 2.5 0.5 1.0 1.5 2.0 $\pi/4$ π/2 $3\pi/4$ True lepton energy [GeV] Beam ON Beam OFF + MC 1.0 0.5

 $\pi/4$

π/2

Muon candidate theta

 $3\pi/4$

π