CCpi0_Np_bnb_12_muon_costheta_all Event counts Σ Data/ Σ Prediction=0.87 \pm 0.21 600 $\chi^2/\text{ndf}=27.9/25$ Pred. Uncertainty POT: 6.37e+20 POT: 6.3/e+20BNB Data, 4198.0 Cosmic, 20.3 Dirt, 1.4 NC π^0 COH, 0.0 NC π^0 RES, 63.1 NC π^0 MEC, 0.0 NC Other, 32.7 v_e/\overline{v}_e CC, 10.3 EXT, 78.0 Out FV, 31.4 400 NCπ⁰ QE, 0.2 NCπ⁰ DIS, 55.5 CCπ⁰, 3793.8 CC Other, 720.3 1200 1000 800 600 400 200 1.8 1.6 Data/Prediction **Total Uncertainty** Stat. + Flux + Cross Sec. + Reweight 1.4 1.2 0.8 0.6 0.4 0.2 0 -0.5 0.5 0

Muon cos θ