







NCpi0BDT_Np_bnb_12_pi0_costheta_all Event counts 000 Σ Data/ Σ Prediction=0.86 \pm 0.28 $\chi^2/\text{ndf}=9.7/20$ Pred. Uncertainty EXT, 276.9 Out FV, 203.1 NC π^0 QE, 11.8 NC π^0 DIS, 235.5 CC π^0 , 515.9 CC Other, 386.7 POT: 6.37e+20 PO1: 6.3/e+20 BNB Data, 2621.0 Cosmic, 75.9 Dirt, 16.0 NC π^0 COH, 5.6 NC π^0 RES, 1017.7 NC π^0 MEC, 0.9 NC Other, 283.4 v_e/\overline{v}_e CC, 20.4 800 600 400 200 1.8 1.6 Data/Prediction **Total Uncertainty** Stat. + Flux + Genie + GEANT4 + Reweight 1.4 1.2 0.8 0.6 0.4 0.2 0 -0.5 0.5 0 $\pi^0 \cos\,\theta$







