NCpi0BDT_FC_Np_bnb_12_kine_pio_energy_low_all Event counts Σ Data/ Σ Prediction=0.72 \pm 0.26 900 χ²/ndf=3.8/16 Pred. Uncertainty POT: 6.37e+20 BNB Data, 1450.0 Cosmic, 40.8 Dirt, 7.2 EXT, 93.7 Out FV, 56.0 800 $NC\pi^{0}$ COH, 1.3 $NC\pi^{0}$ RES, 949.9 $NC\pi^{0}$ MEC, 1.1 NC Other, 175.7 $NC\pi^{0}$ QE, 12.1 $NC\pi^{0}$ DIS, 171.0 $CC\pi^{0}$, 273.0 CC Other, 221.2 700 v_e/\overline{v}_e CC, 10.3 600 500 400 300 200 100 1.8 1.6 Data/Prediction **Total Uncertainty** Stat. + Flux + Genie + GEANT4 + Reweight .4 0.8 0.6 0.4 0.2 250 300 350 40 Sub-leading shower Energy [MeV] 50 200 100 150 400