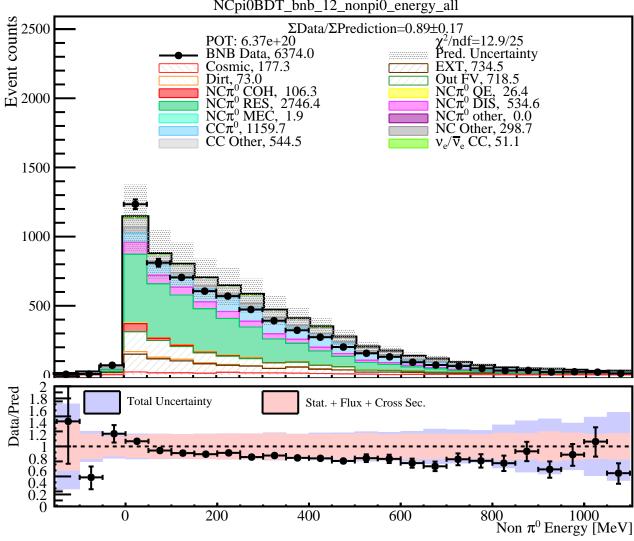
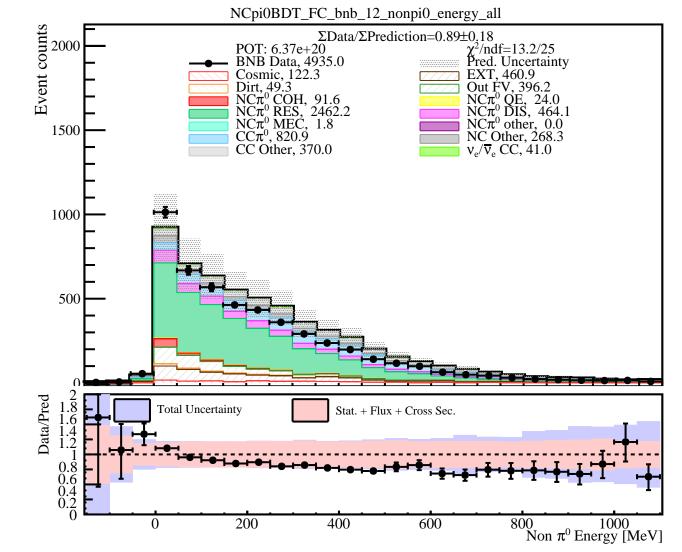
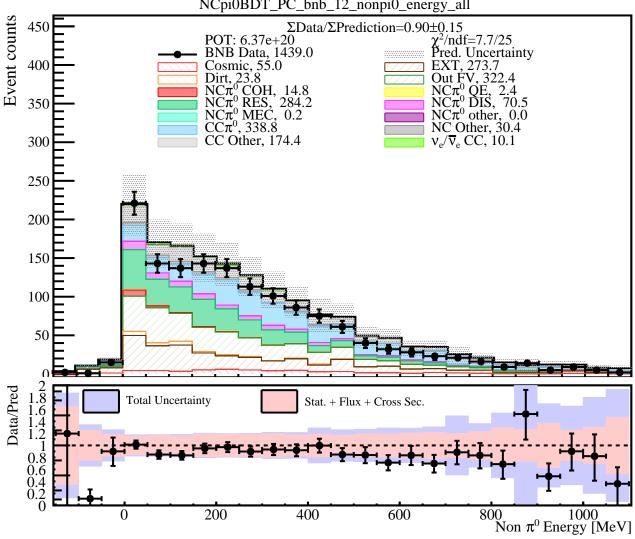
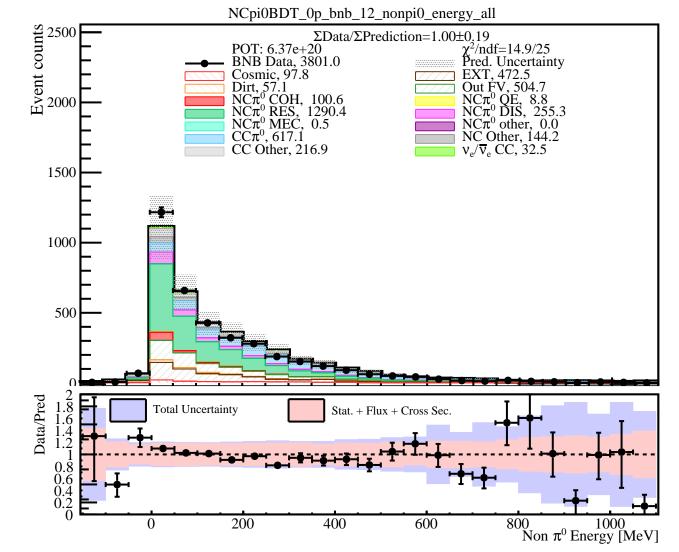
NCpi0BDT_bnb_12_nonpi0_energy_all



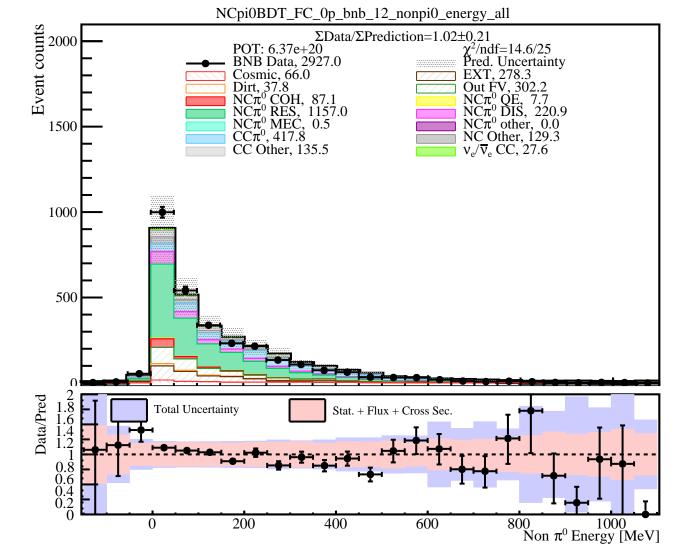


NCpi0BDT_PC_bnb_12_nonpi0_energy_all

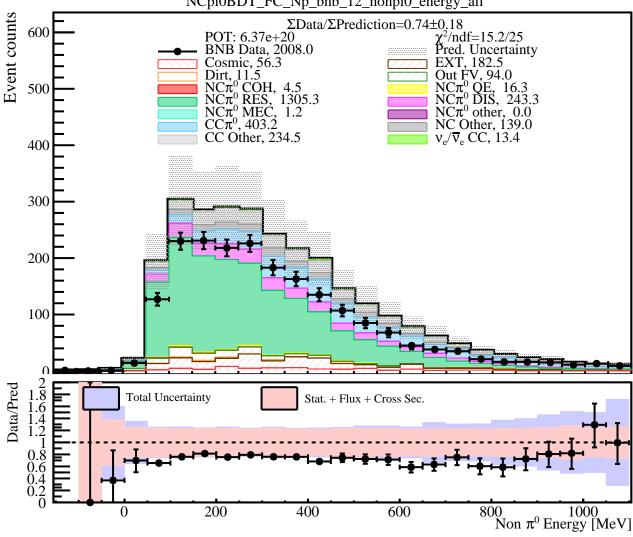


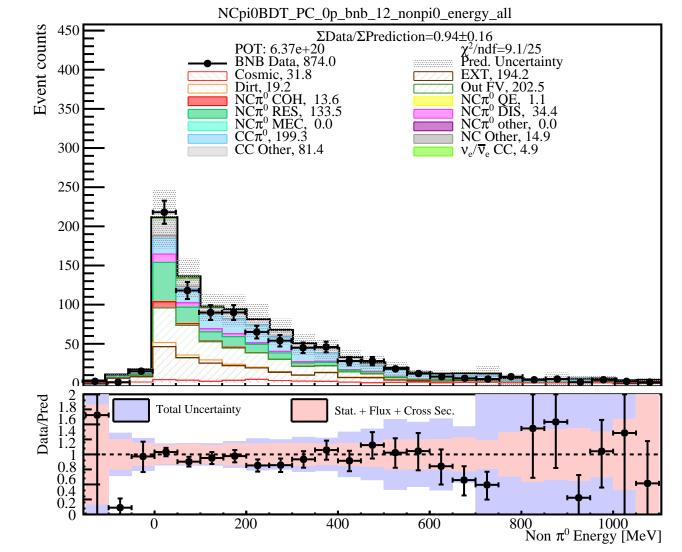


NCpi0BDT_Np_bnb_12_nonpi0_energy_all Event counts ΣData/ΣPrediction=0.76±0.18 $\chi^2/\text{ndf}=12.3/25$ Pred. Uncertainty EXT, 262.1 Out FV, 213.8 NC π^0 QE, 17.6 NC π^0 DIS, 279.4 NC π^0 other, 0.0 NC Other, 154.5 v_e/\overline{v}_e CC, 18.6 POT: 6.37e+20 PO1: 6.37e+20 BNB Data, 2573.0 Cosmic, 79.5 Dirt, 16.0 NCπ⁰ COH, 5.7 NCπ⁰ RES, 1456.0 NCπ⁰ MEC, 1.4 CCπ⁰, 542.6 700 600 CC Other, 327.5 500 400 300 200 100 1.8 1.6 1.4 1.2 Data/Pred **Total Uncertainty** Stat. + Flux + Cross Sec. 0.8 0.6 0.4 0.2 0 200 400 600 800 1000 Non π^0 Energy [MeV]



NCpi0BDT_FC_Np_bnb_12_nonpi0_energy_all





NCpi0BDT_PC_Np_bnb_12_nonpi0_energy_all Event counts Σ Data/ Σ Prediction=0.84 \pm 0.19 χ^2 /ndf=11.4/25 Pred. Uncertainty EXT, 79.5 Out FV, 119.8 POT: 6.37e+20 140 POT: 6.3/e+20BNB Data, 565.0Cosmic, 23.1Dirt, 4.5NC π^0 COH, 1.2NC π^0 RES, 150.7NC π^0 MEC, 0.1CC π^0 , 139.5CC Other, 93.0 $\begin{array}{c} \text{NC}\pi^0 \text{ QE, } 1.3 \\ \text{NC}\pi^0 \text{ DIS, } 36.1 \\ \text{NC}\pi^0 \text{ other, } 0.0 \\ \text{NC Other, } 15.5 \\ \text{v_e}/\overline{\text{v}_e} \text{ CC, } 5.2 \\ \end{array}$ 120 100 80 60 40 20 1.8 1.6 1.4 1.2 Data/Pred Total Uncertainty Stat. + Flux + Cross Sec. 0.8 0.6 0.4 0.2 0 $\begin{array}{c} 800 \\ \text{Non } \pi^0 \text{ Energy [MeV]} \end{array}$ 200 400 600