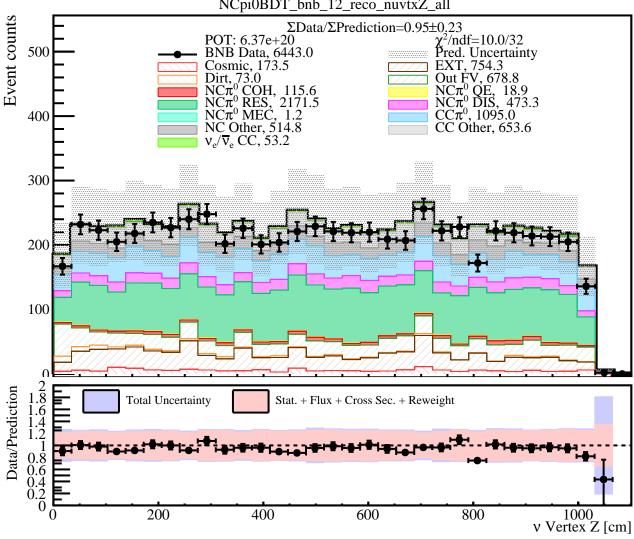
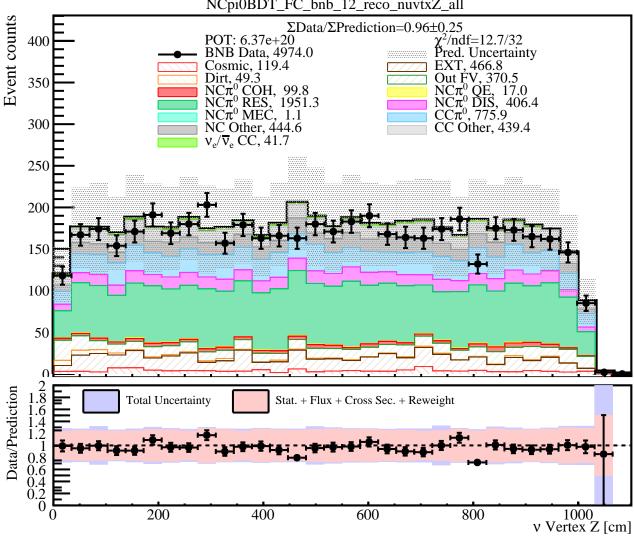
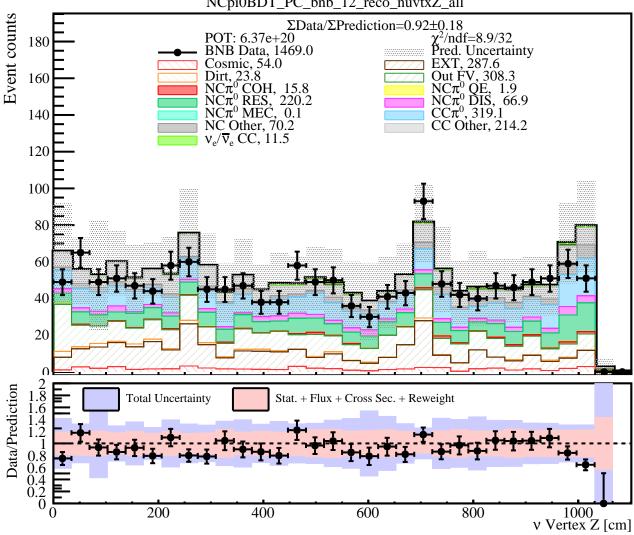
### NCpi0BDT bnb 12 reco nuvtxZ all

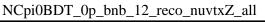


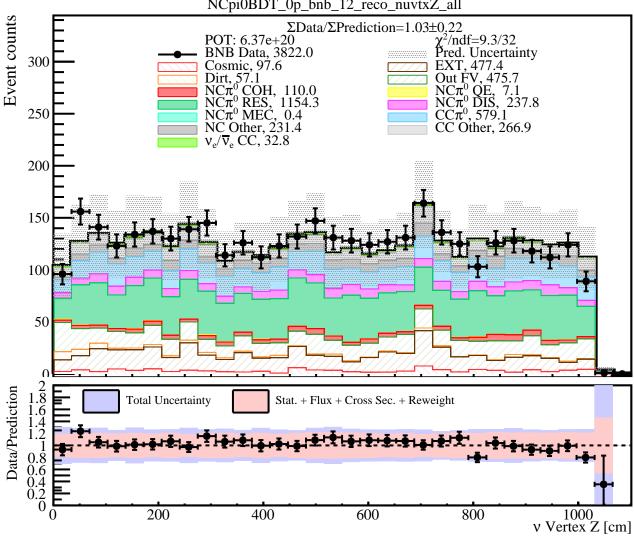
#### NCpi0BDT FC bnb 12 reco nuvtxZ all

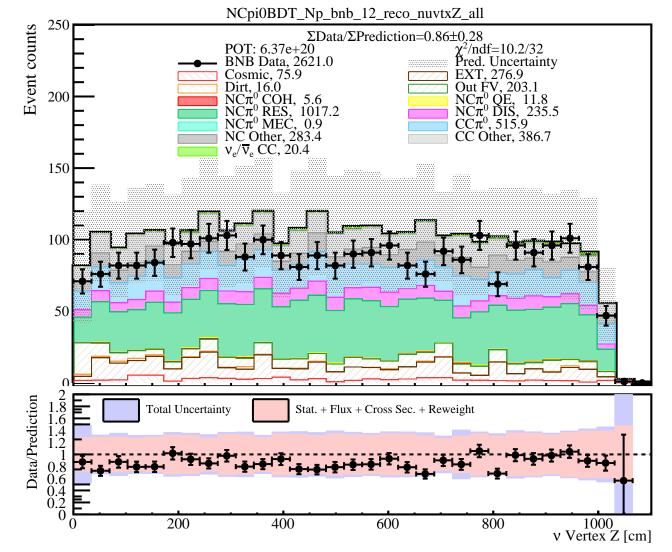


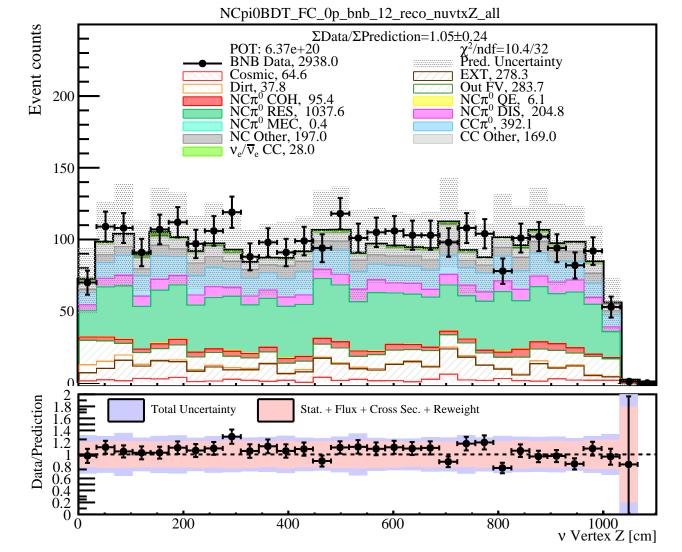
### NCpi0BDT\_PC\_bnb\_12\_reco\_nuvtxZ\_all



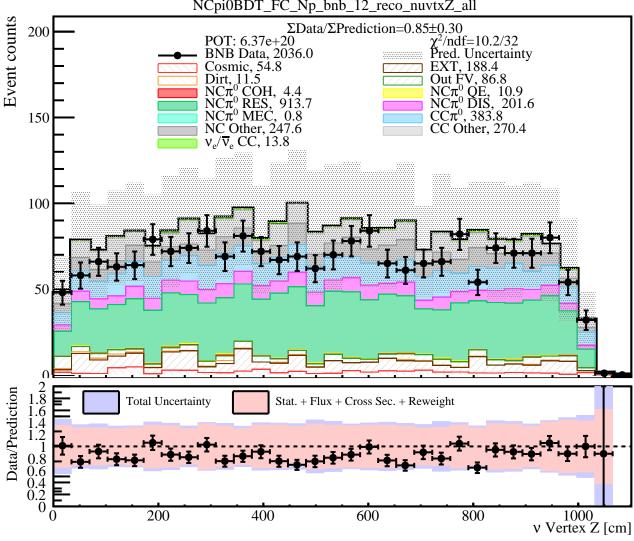








# NCpi0BDT\_FC\_Np\_bnb\_12\_reco\_nuvtxZ\_all



NCpi0BDT\_PC\_0p\_bnb\_12\_reco\_nuvtxZ\_all Event counts  $\Sigma$ Data/ $\Sigma$ Prediction=0.95 $\pm$ 0.18  $\chi^2$ /ndf=9.9/32 Pred. Uncertainty EXT, 199.1 Out FV, 192.0 POT: 6.37e+20 PO1: 6.3/e+20BNB Data, 884.0Cosmic, 33.0Dirt, 19.2NC $\pi^0$  COH, 14.7NC $\pi^0$  RES, 116.7NC $\pi^0$  MEC, 0.0NC Other, 34.4 $v_e/\overline{v}_e$  CC, 4.9120  $NC\pi^{0}$  QE, 1.0  $NC\pi^{0}$  DIS, 33.1  $CC\pi^{0}$ , 187.0 CC Other, 97.8 100 80 60 40 20 1.8 1.6 Data/Prediction **Total Uncertainty** Stat. + Flux + Cross Sec. + Reweight .4 .2 0.8 0.6 0.4 0.2 0 200 400 800 1000 ν Vertex Z [cm] 600

# NCpi0BDT\_PC\_Np\_bnb\_12\_reco\_nuvtxZ\_all

