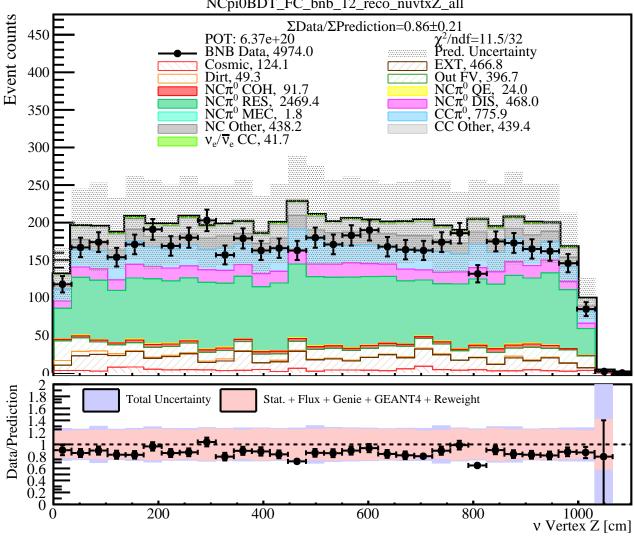
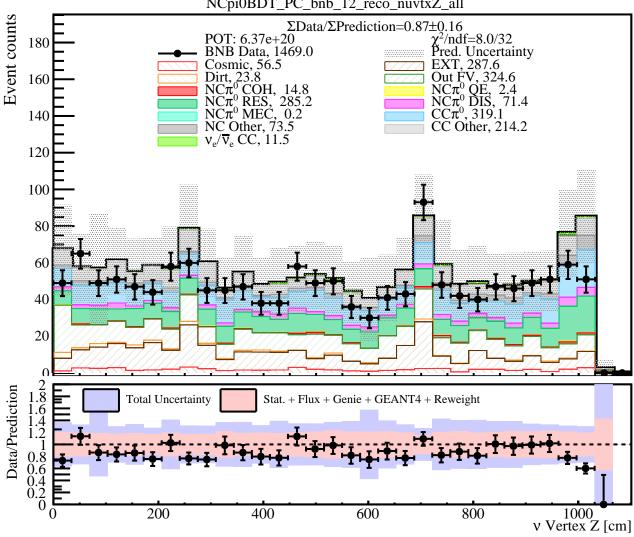


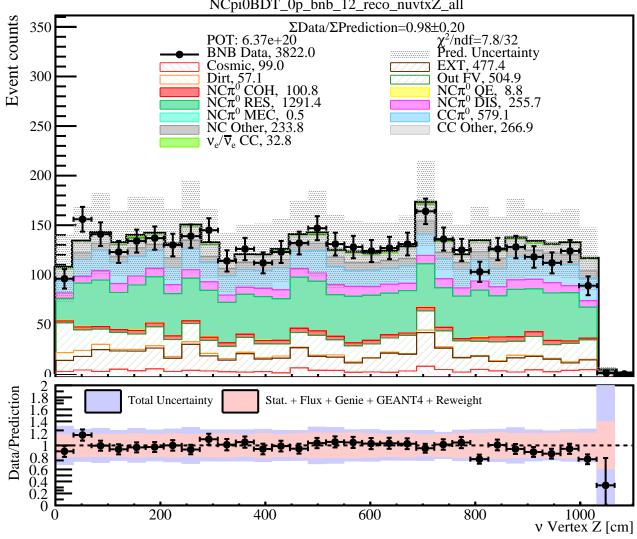
#### NCpi0BDT FC bnb 12 reco nuvtxZ all



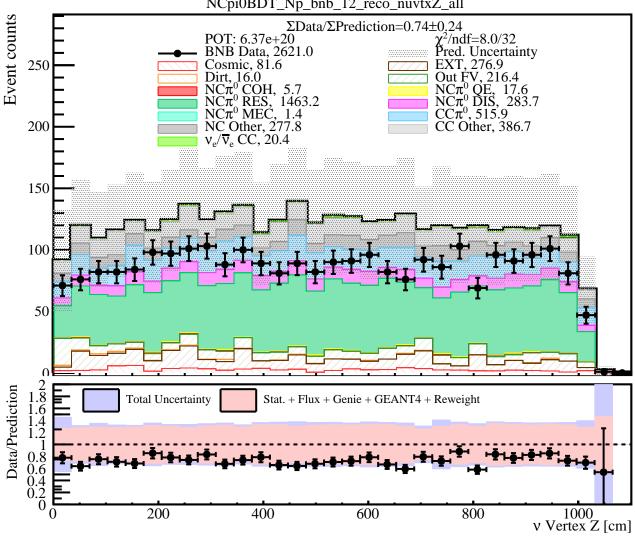
#### NCpi0BDT\_PC\_bnb\_12\_reco\_nuvtxZ\_all

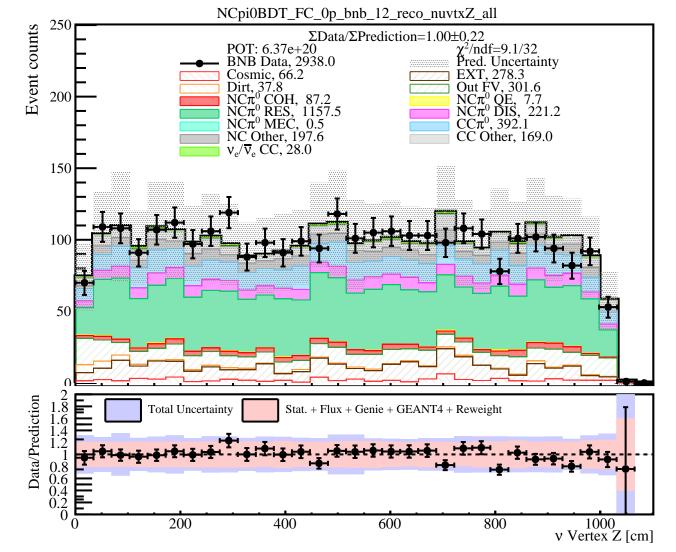


# NCpi0BDT\_0p\_bnb\_12\_reco\_nuvtxZ\_all

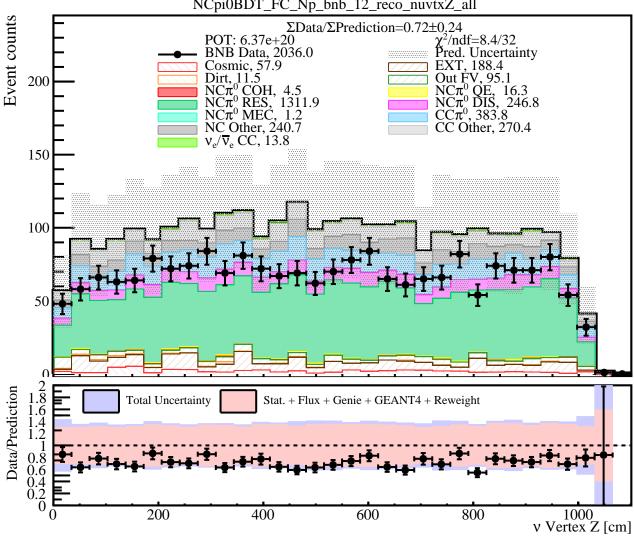


#### NCpi0BDT\_Np\_bnb\_12\_reco\_nuvtxZ\_all





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



NCpi0BDT\_PC\_0p\_bnb\_12\_reco\_nuvtxZ\_all Event counts ΣData/ΣPrediction=0.92±0.17  $\chi^2$ /ndf=8.5/32 Pred. Uncertainty EXT, 199.1 Out FV, 203.3 NC $\pi^0$  QE, 1.1 NC $\pi^0$  DIS, 34.4 CC $\pi^0$ , 187.0 CC Other, 97.8 POT: 6.37e+20 PO1: 6.3/e+20BNB Data, 884.0Cosmic, 32.8Dirt, 19.2NC $\pi^0$  COH, 13.6NC $\pi^0$  RES, 133.8NC $\pi^0$  MEC, 0.0NC Other, 36.3 $v_e/\overline{v}_e$  CC, 4.9120 100 80 60 40 20 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 1000 ν Vertex Z [cm] 200 400 800 600

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

