

generic\_PC\_bnb\_12\_nc\_pio\_score\_all Event Counts 0000 Event Counts ΣData/ΣPrediction=0.99±0.13  $\chi^2/ndf=32.7/60$ POT: 6.37e+20 BNB Data, 139267.0 Pred. Uncertainty Cosmic, 3498.9 EXT, 22815.5 Dirt, 4995.0 Out FV, 9463.4  $NC\pi^0$  COH, 35.5  $NC\pi^0$  non-COH, 1301.0  $CC\pi^{0}$ , 9759.5 NC Other, 2702.3 CC Other, 85976.2  $v_e/\overline{v}_e$  CC, 438.8 8000 6000 4000 2000 Data/Pred **Total Uncertainty** Stat. + Flux + Cross Sec. 0.8 0.6 0.4 0.2 0\_ **BDT Score** 

generic\_bnb\_12\_nc\_pio\_score\_all Stant Counts (2000) 10000 (2000) ( ΣData/ΣPrediction=1.00±0.13  $\chi^2/\text{ndf}=37.7/60$ POT: 6.37e+20 BNB Data, 225120.0 Pred. Uncertainty Cosmic, 6311.3 EXT, 32682.2 Dirt, 7052.5 Out FV, 12219.1  $NC\pi^{0}$  COH, 183.1  $NC\pi^0$  non-COH, 6926.0  $CC\pi^{0}$ , 16237.3 NC Other, 13398.8 12000 CC Other, 129077.7  $v_e/\overline{v}_e$  CC, 1049.7 10000 8000 6000 4000 2000 1.8 1.6 Data/Pred **Total Uncertainty** Stat. + Flux + Cross Sec. 0.8 0.6 0.4 0.2 0 **BDT Score**