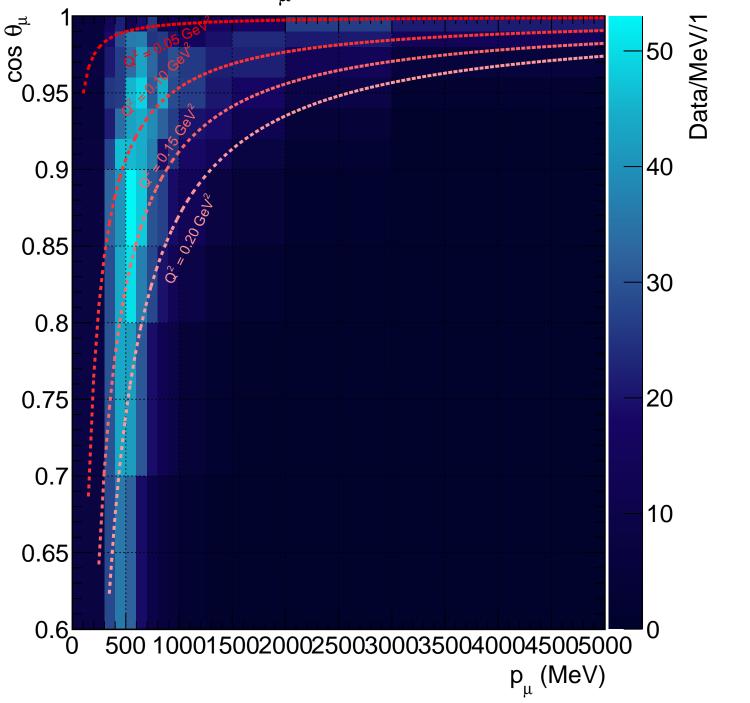
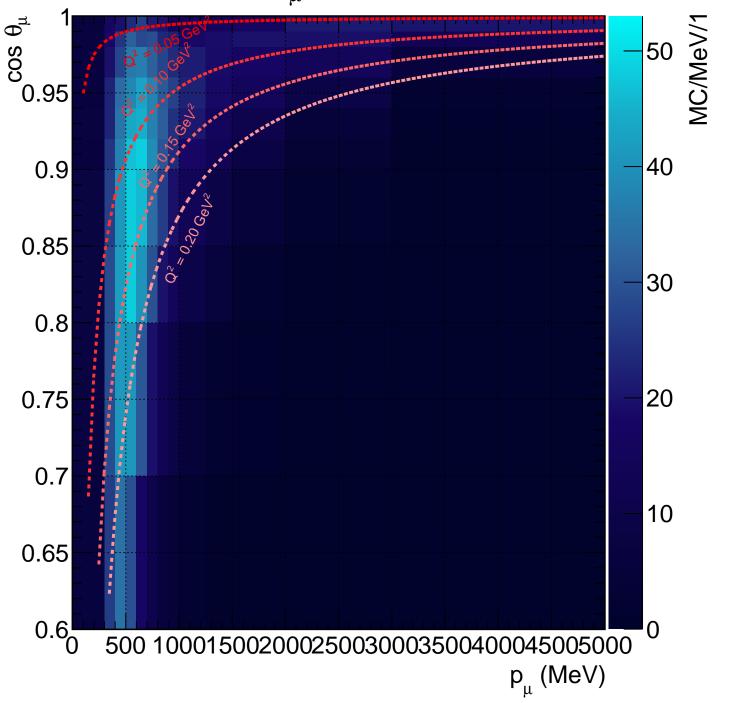
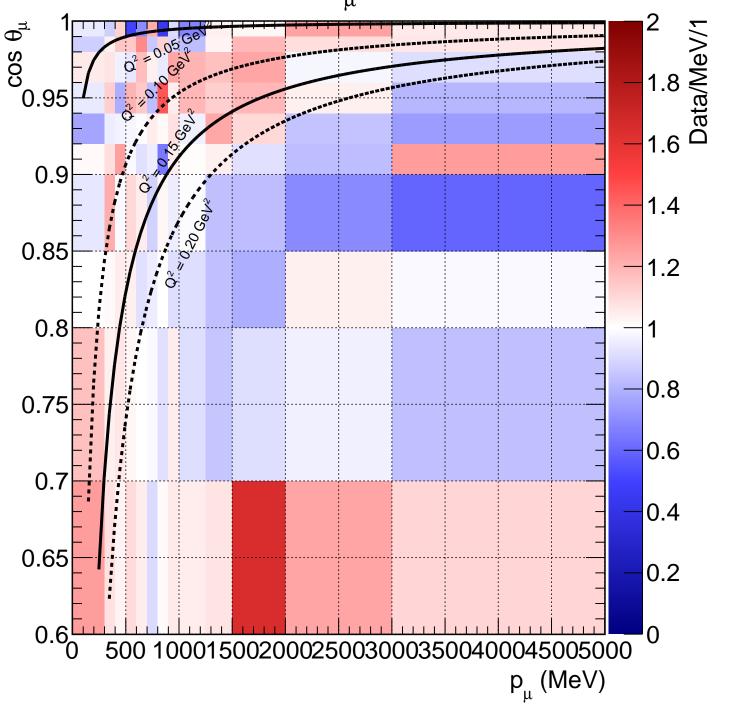
FGD1  $\nu_{\mu}$ CC  $0\pi$  data: 2636.70



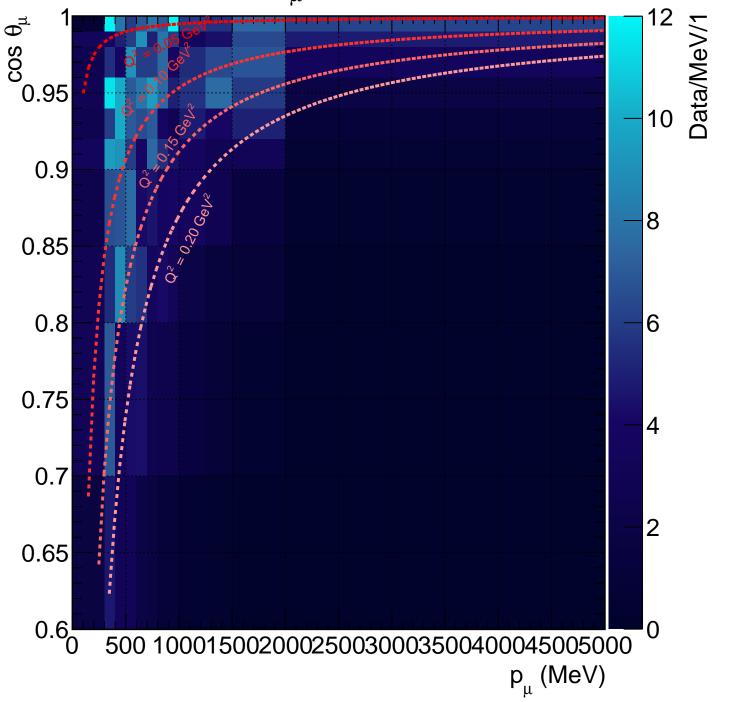
FGD1  $\nu_{\mu}$ CC  $0\pi$  MC: 2587.91



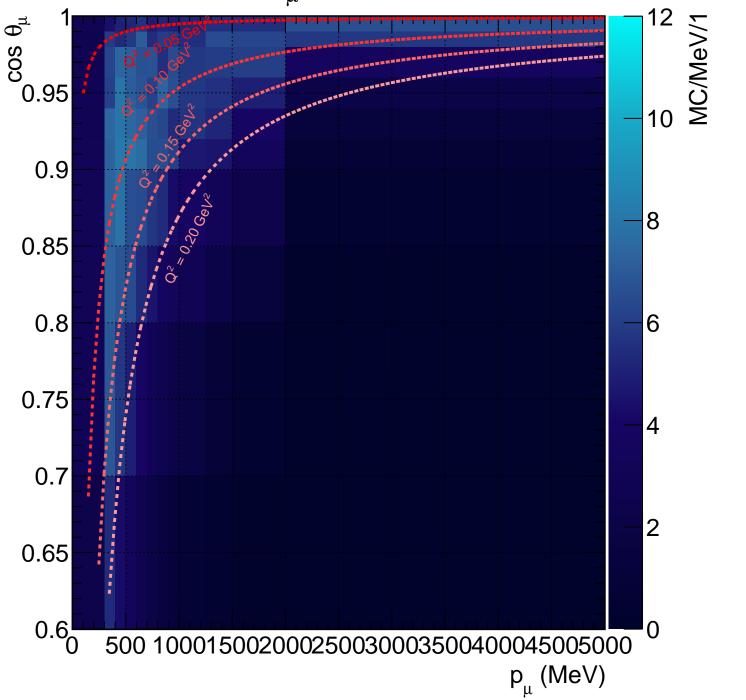
FGD1  $\nu_{\mu}$ CC  $0\pi$  ratio



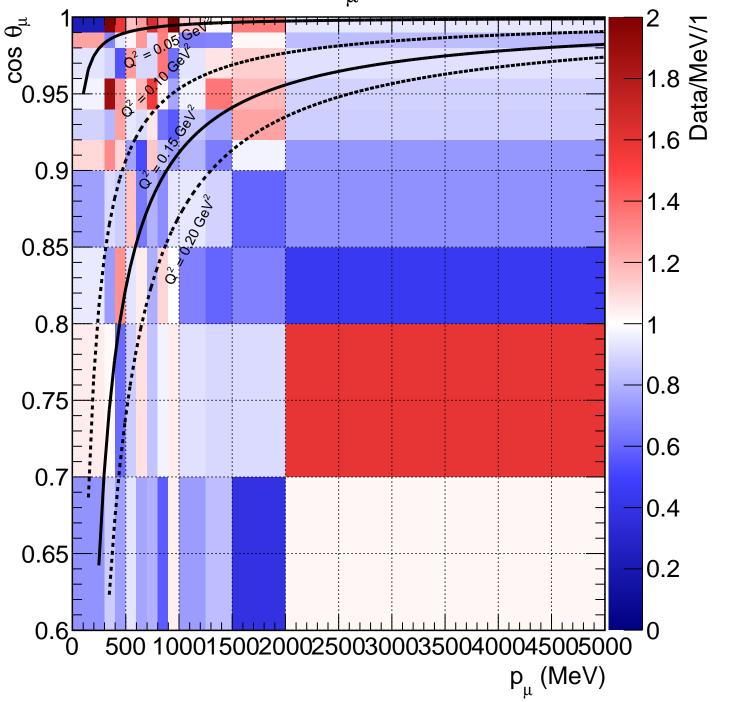
FGD1  $\nu_{\mu}$ CC 1 $\pi$  data: 569.39



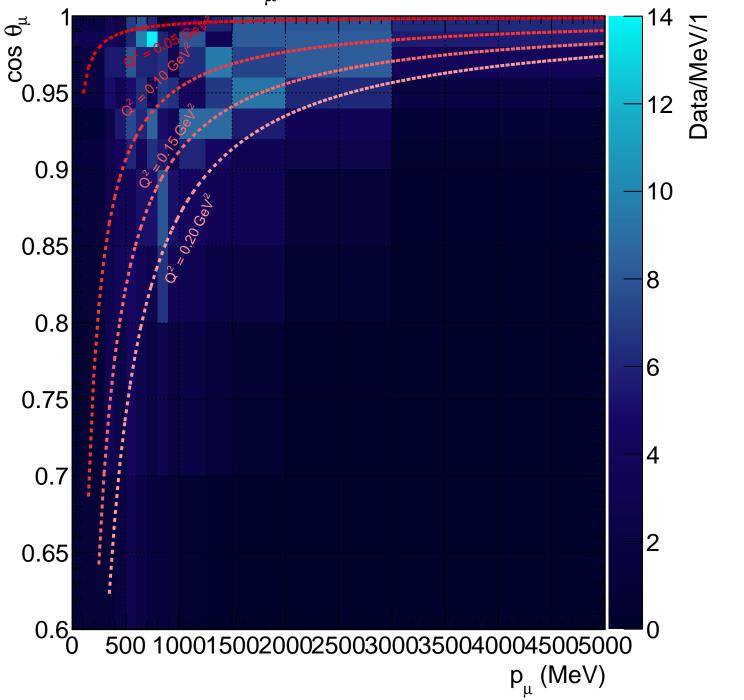
**FGD1**  $v_{\mu}$ **CC**  $1\pi$  **MC**: 570.922



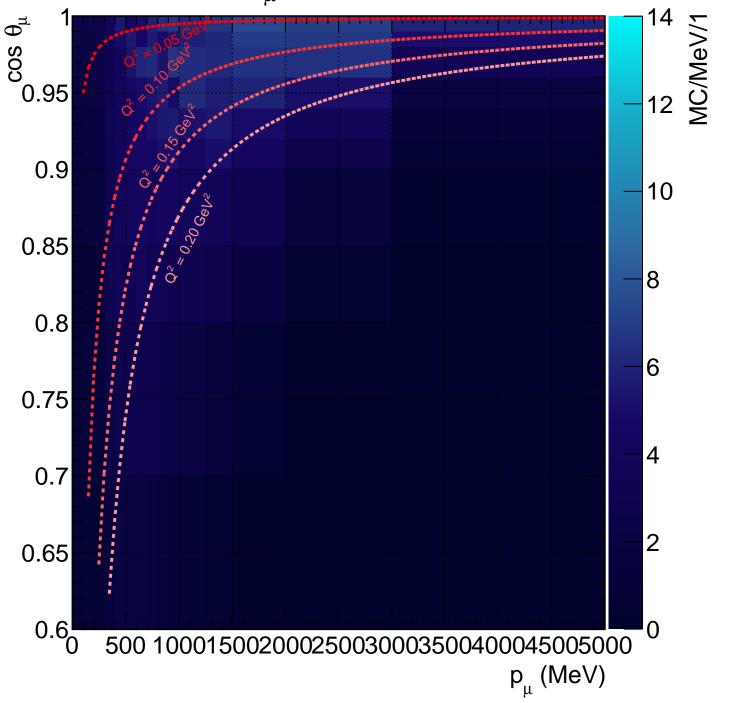
FGD1  $v_{\mu}$ CC  $1\pi$  ratio



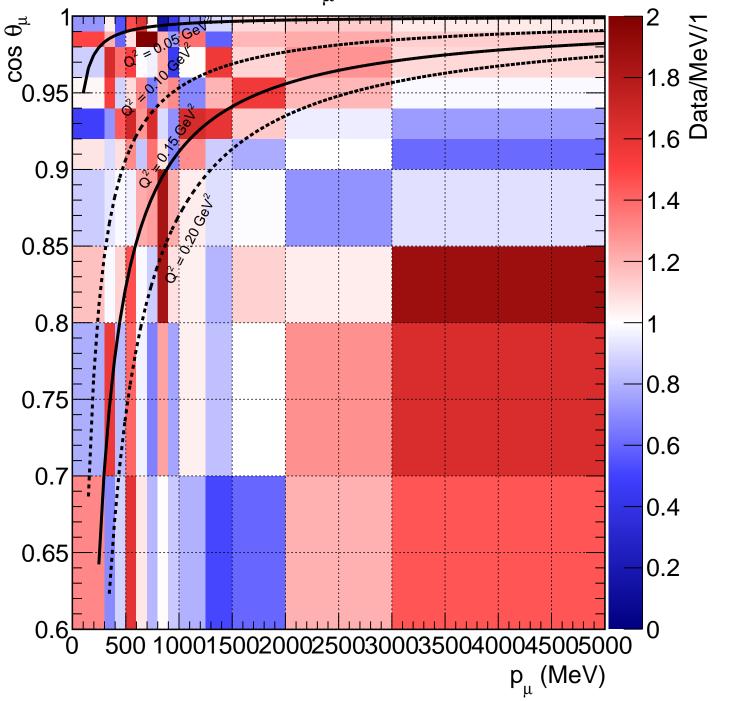
FGD1  $\nu_{\mu}$ CC other data: 542.14



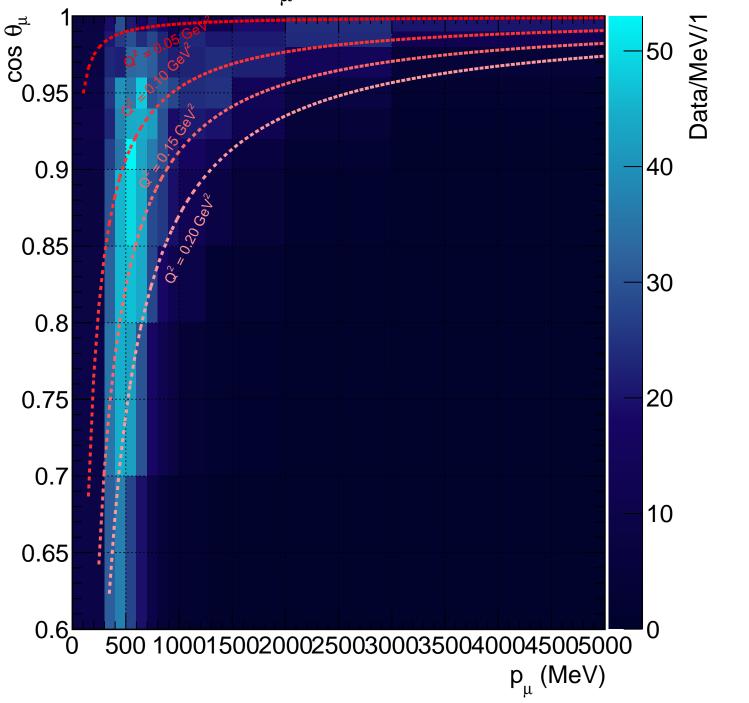
FGD1  $\nu_{\mu}$ CC other MC: 491.755



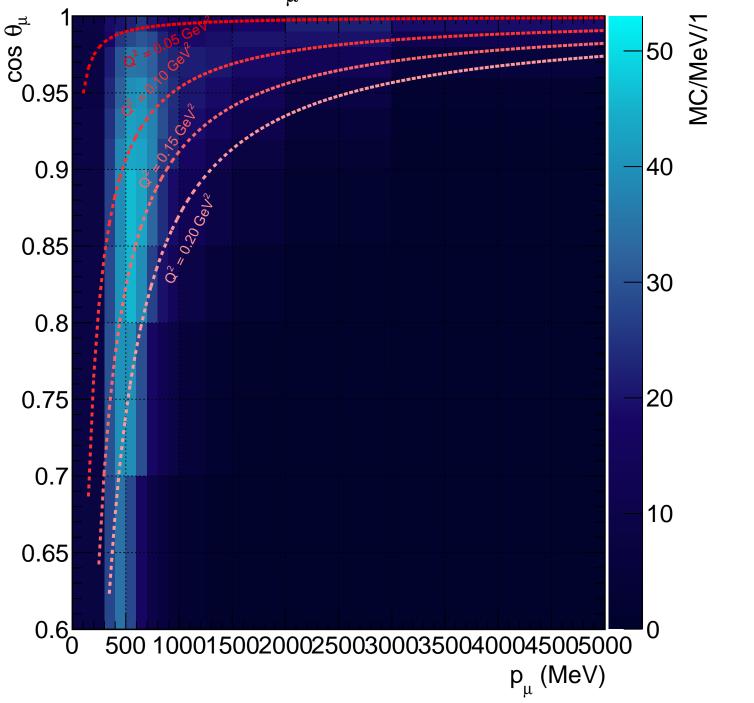
FGD1  $v_{\mu}$ CC other ratio



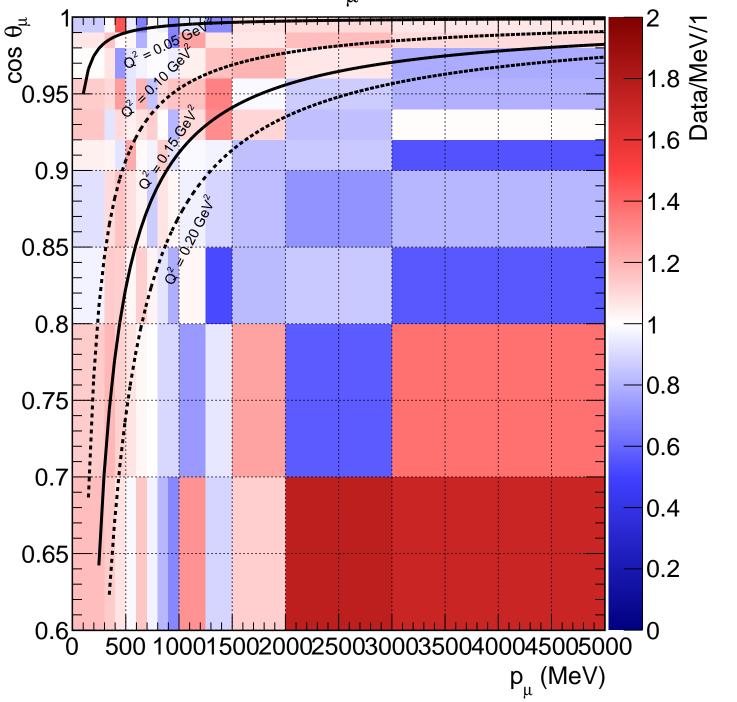
FGD2  $\nu_{\mu}$ CC  $0\pi$  data: 2609.25



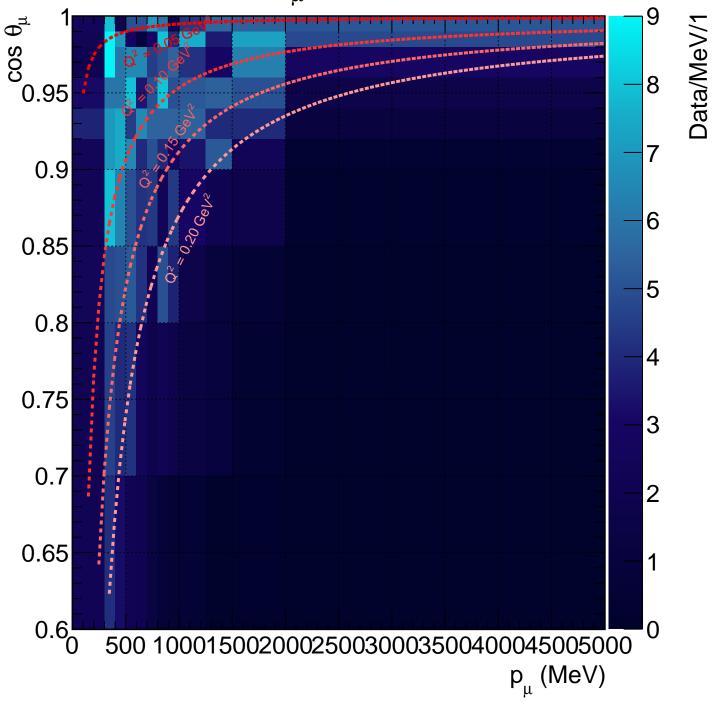
**FGD2**  $v_{\mu}$ **CC**  $0\pi$  **MC**: 2535.22



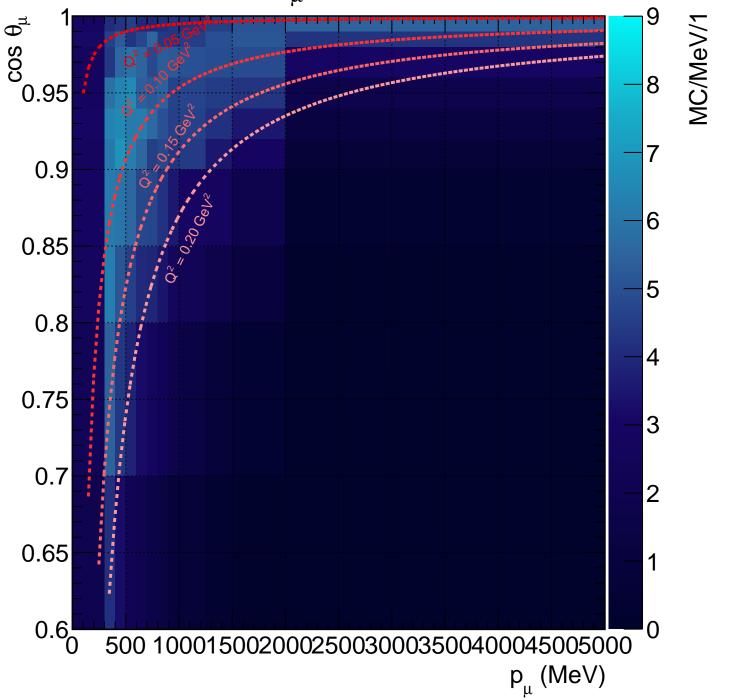
FGD2  $v_{\mu}$ CC  $0\pi$  ratio



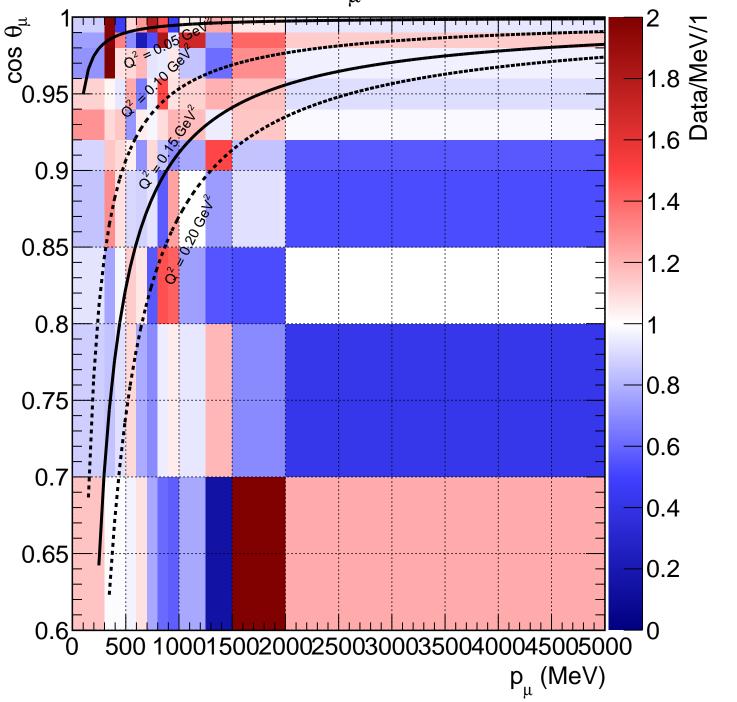
FGD2  $\nu_{\mu}$ CC  $1\pi$  data: 479.30



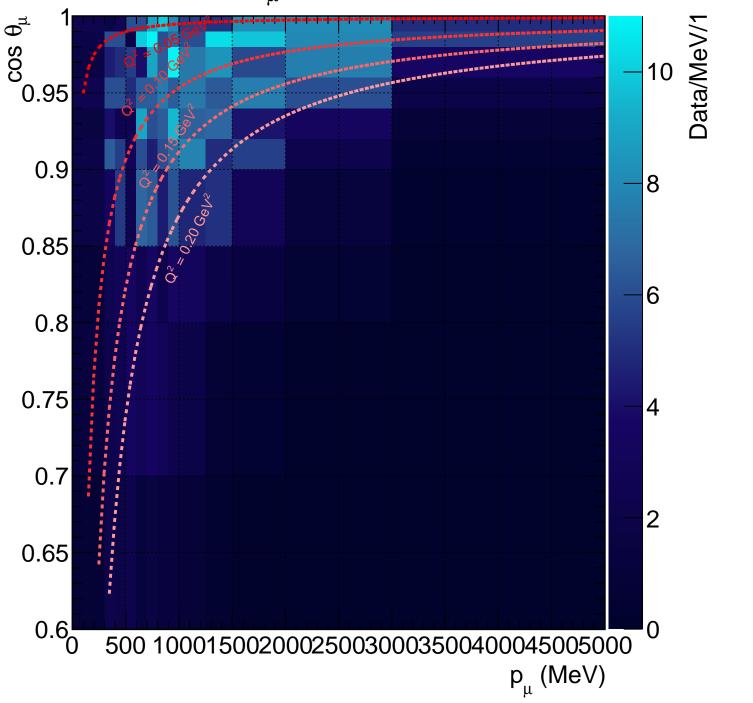
**FGD2**  $v_{\mu}$ **CC**  $1\pi$  **MC**: 464.601



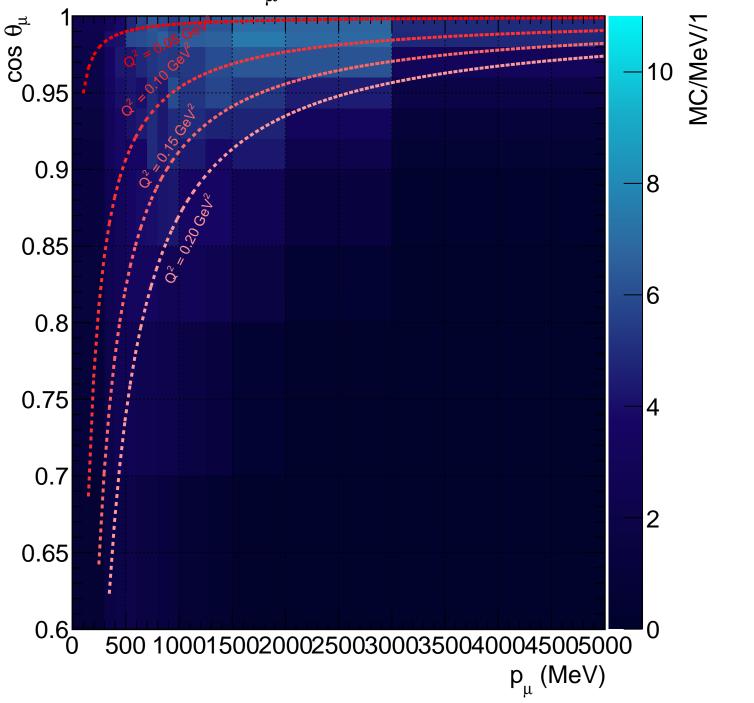
## FGD2 $v_{\mu}$ CC $1\pi$ ratio



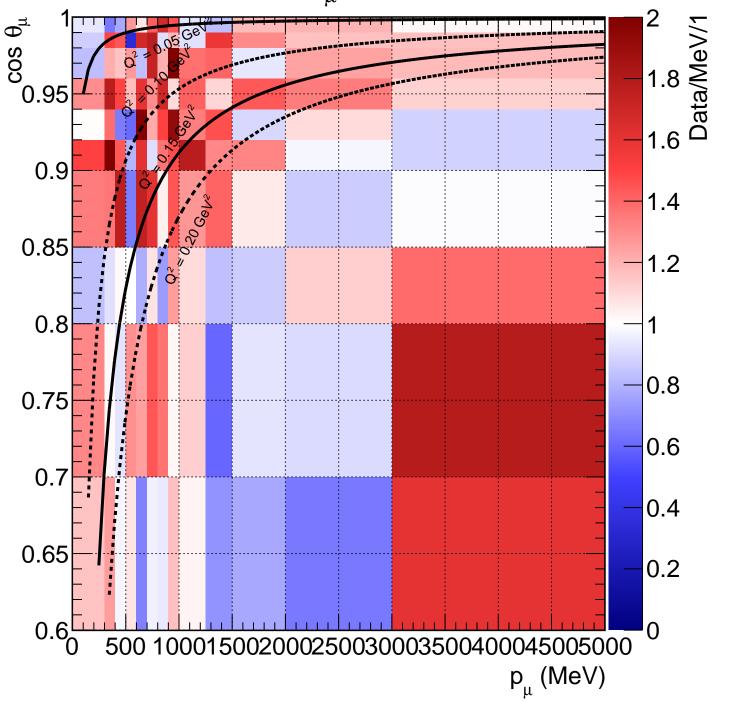
FGD2  $v_{\mu}$ CC other data: 569.43



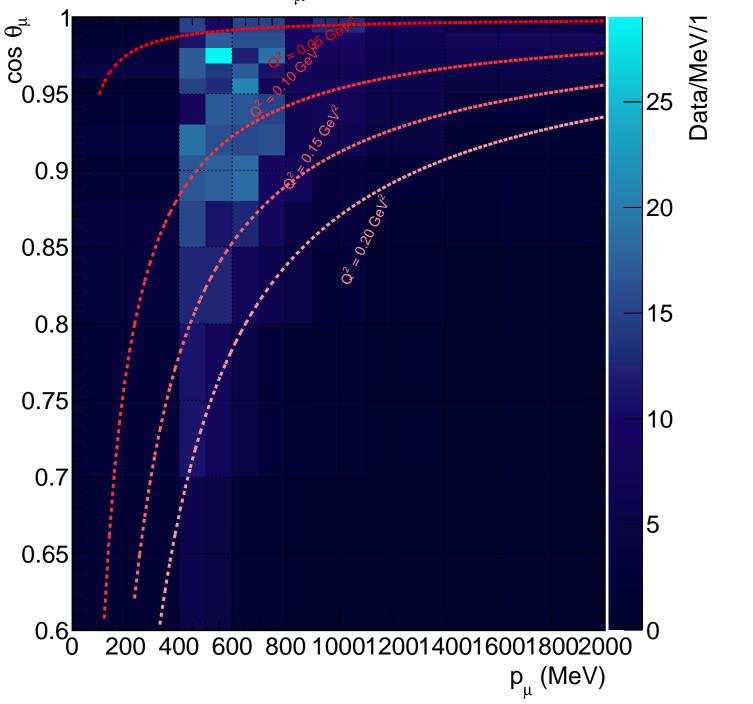
FGD2  $v_{\mu}$ CC other MC: 459.467



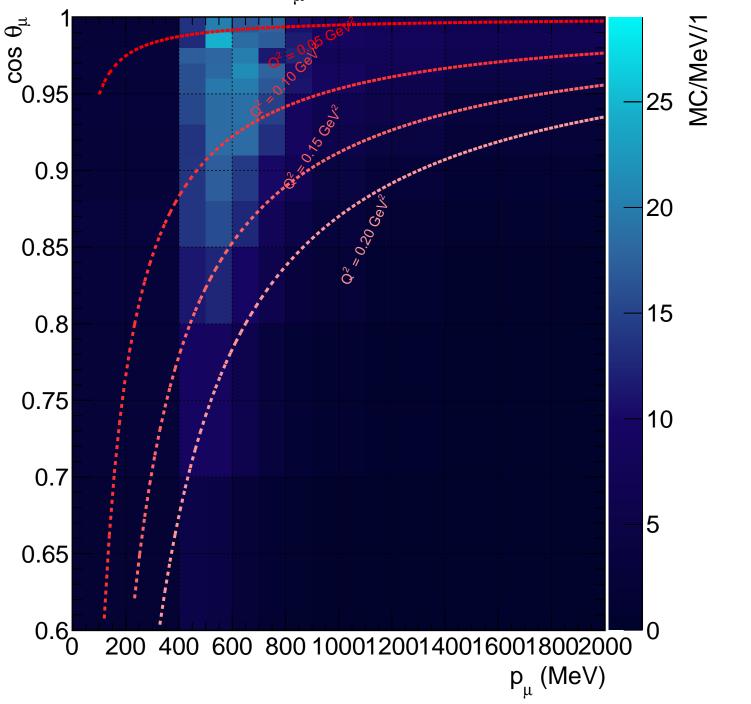
## FGD2 $v_{\mu}$ CC other ratio



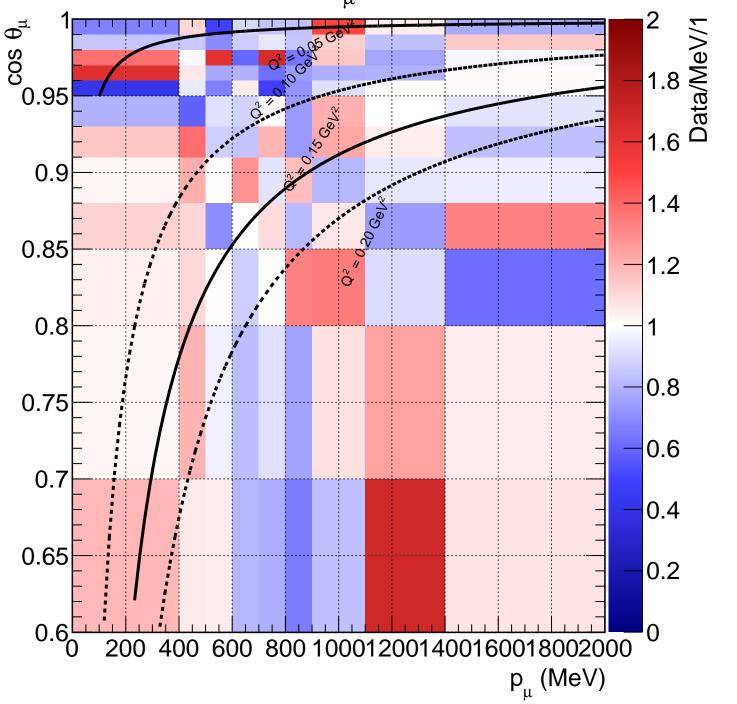
FGD1 anti- $v_{\mu}$ CC 1 track data: 889.46



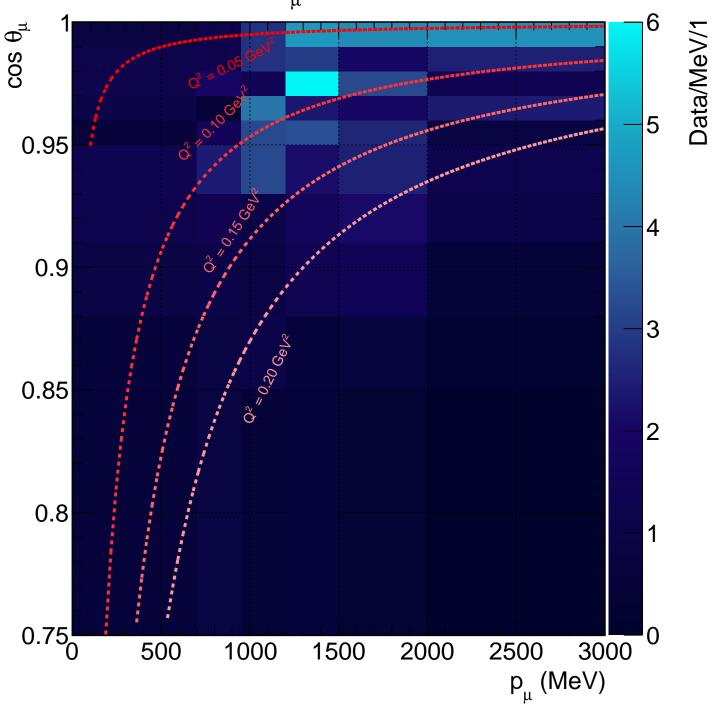
FGD1 anti- $\nu_{\mu}$ CC 1 track MC: 953.889



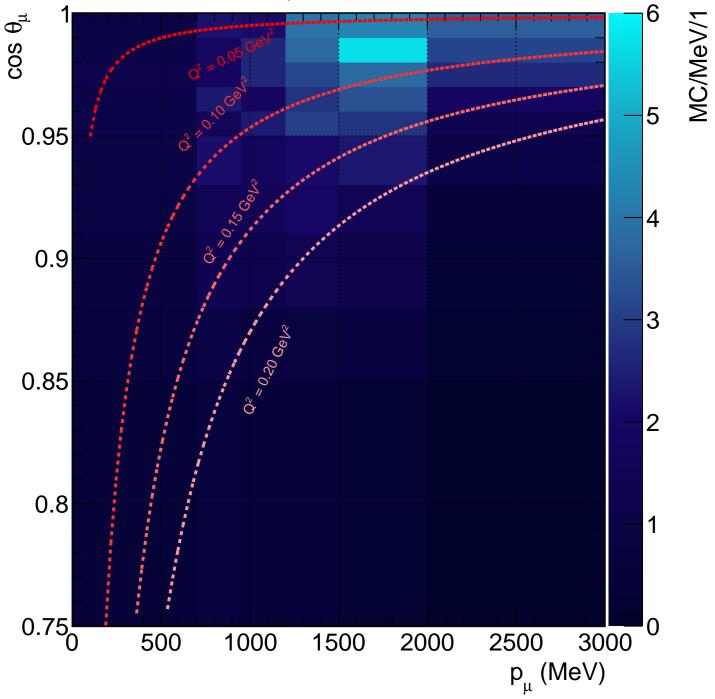
FGD1 anti- $v_{\mu}$ CC 1 track ratio



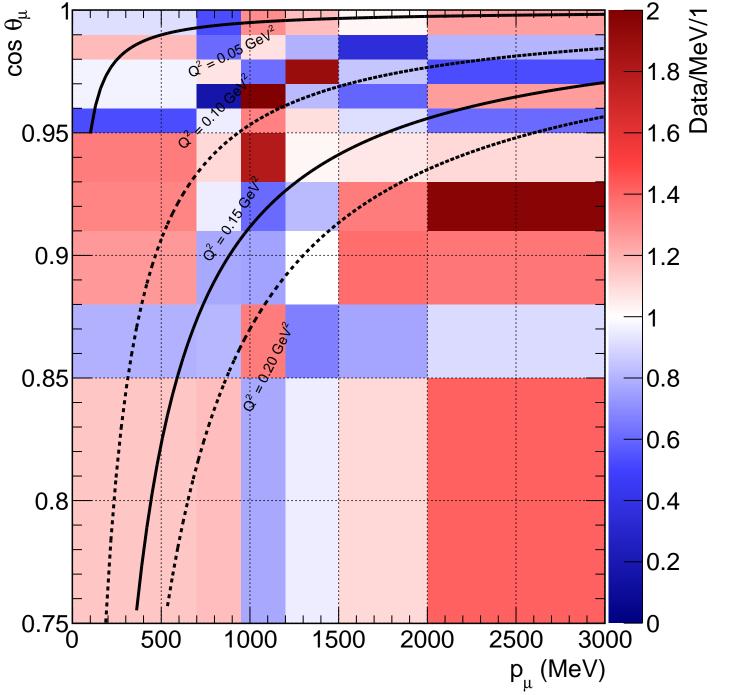
FGD1 anti- $v_{\mu}$ CC N tracks data: 107.21



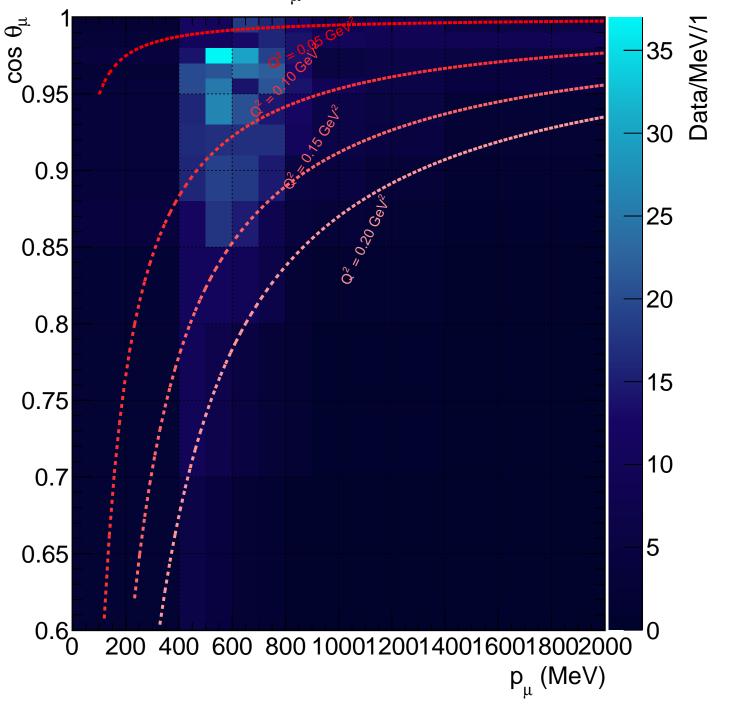
FGD1 anti- $v_{\mu}$ CC N tracks MC: 111.115



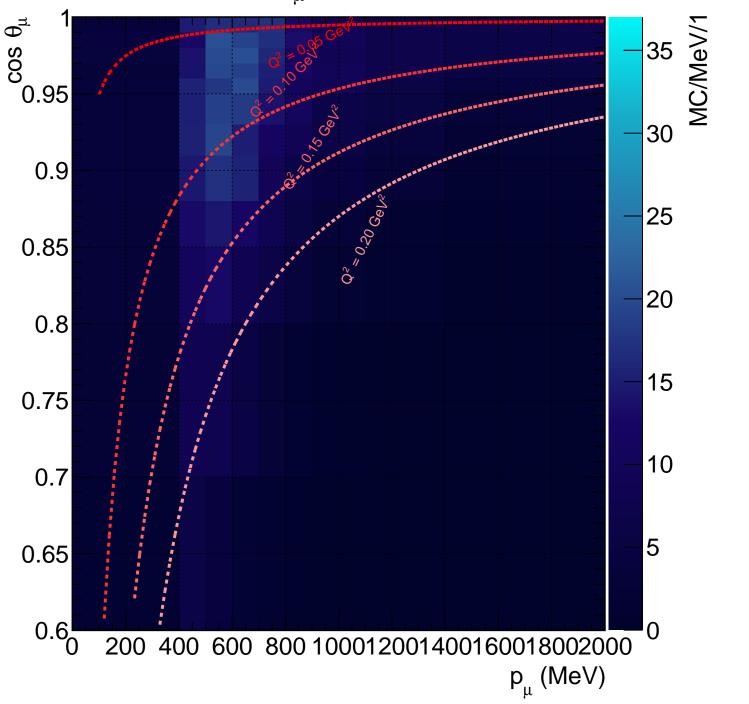
FGD1 anti- $v_{\mu}$ CC N tracks ratio



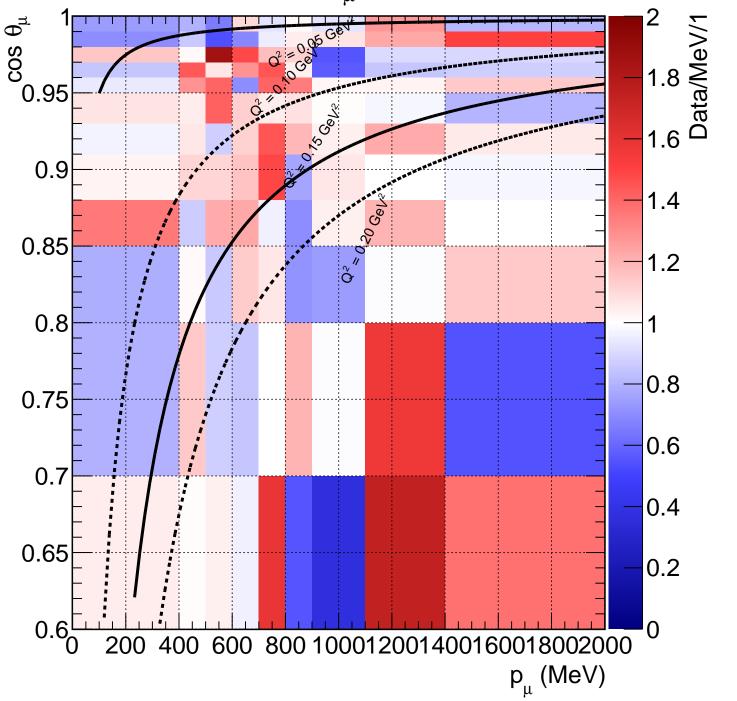
FGD2 anti- $\nu_{\mu}$ CC 1 track data: 1017.05



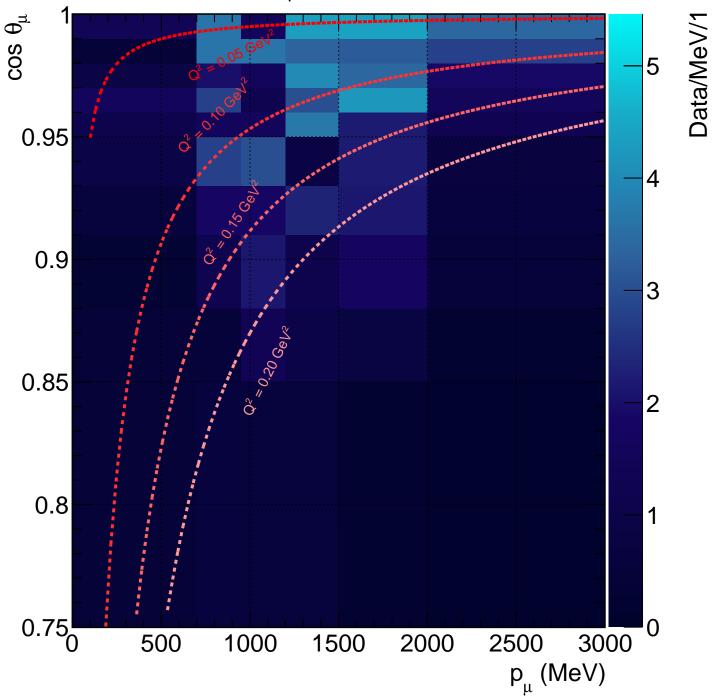
FGD2 anti- $\nu_{\mu}$ CC 1 track MC: 951.224



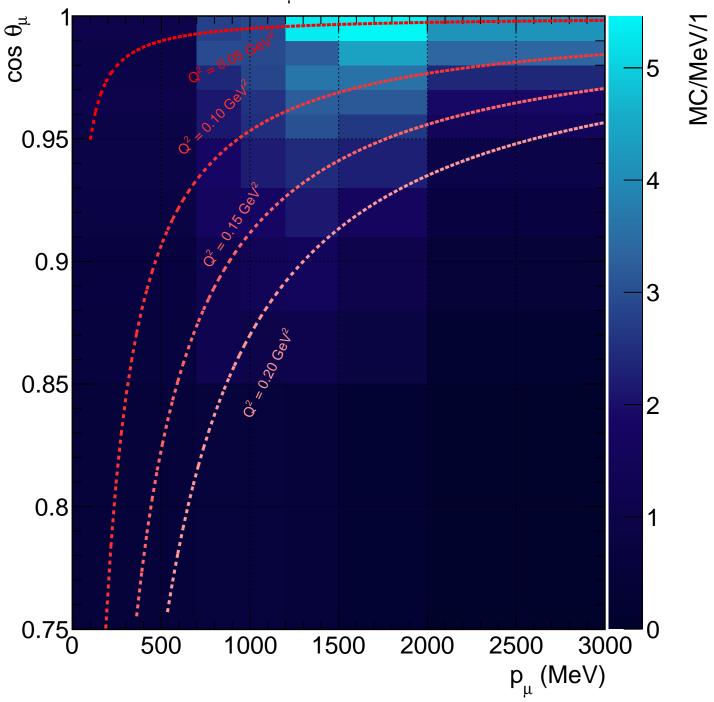
FGD2 anti- $v_{\mu}$ CC 1 track ratio



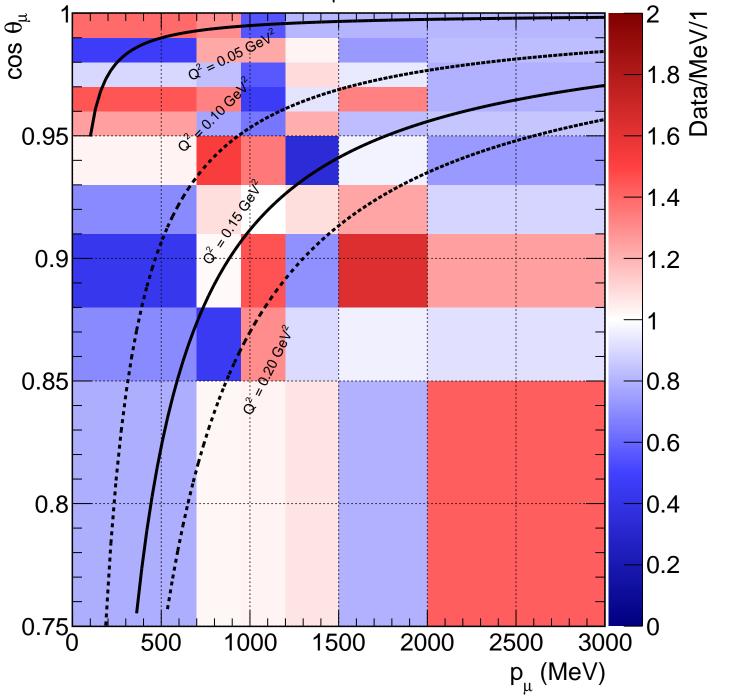
FGD2 anti- $v_{\mu}$ CC N tracks data: 111.10



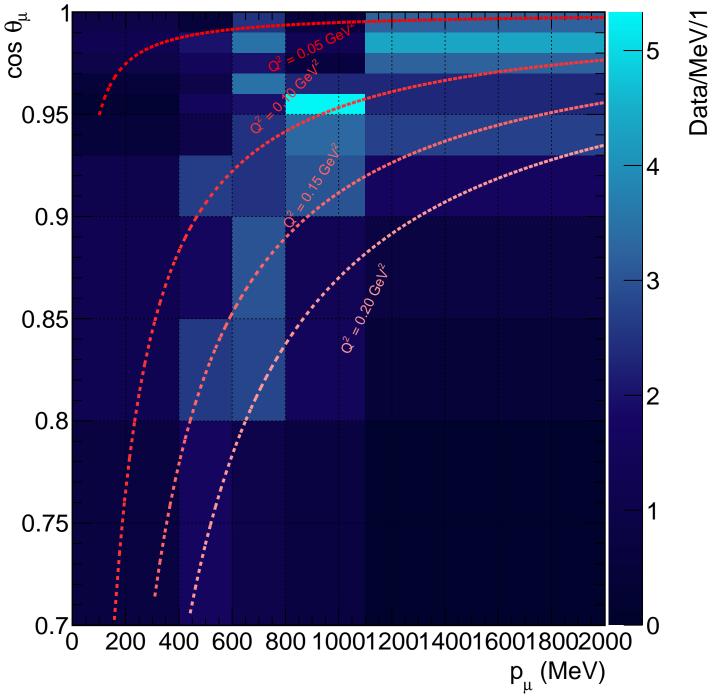
FGD2 anti- $\nu_{\mu}$ CC N tracks MC: 117.964



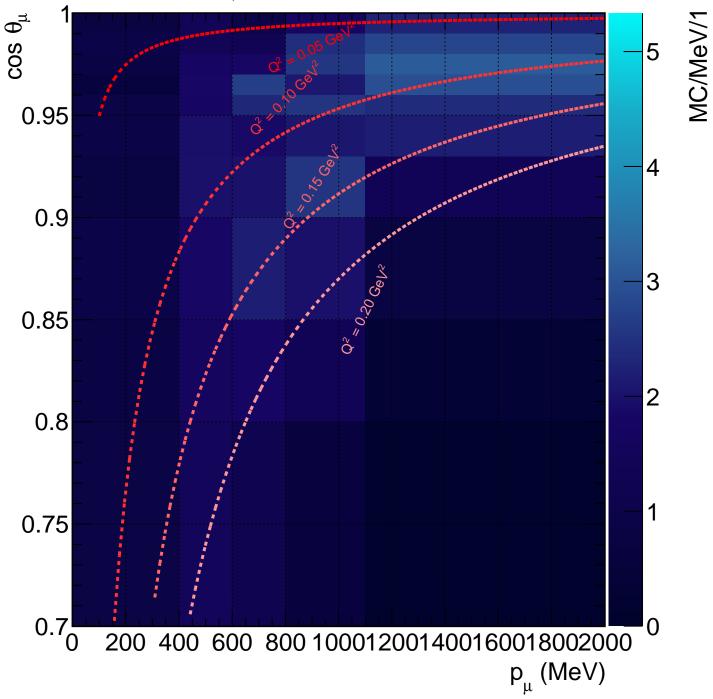
FGD2 anti- $\nu_{\mu}$ CC N tracks ratio



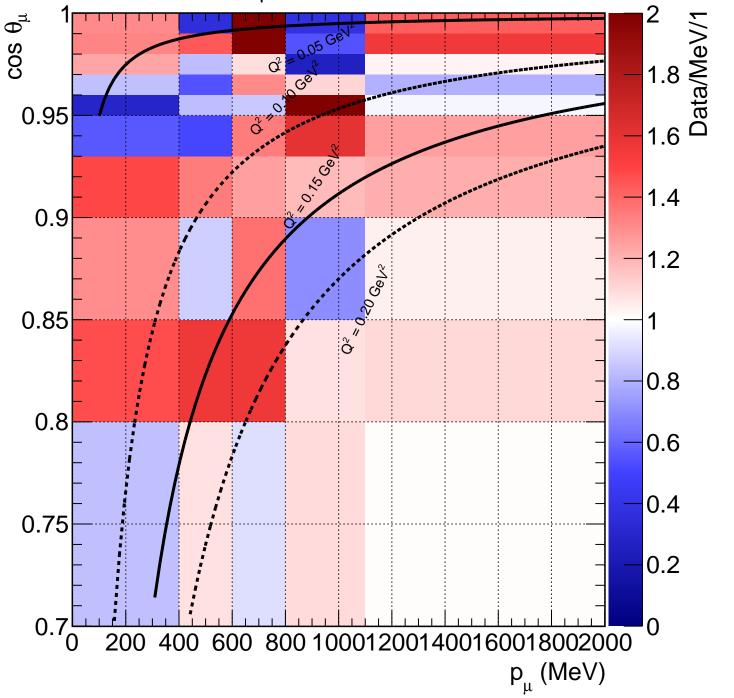
FGD1  $\nu_{\mu}$  RHC CC 1 track data: 96.11



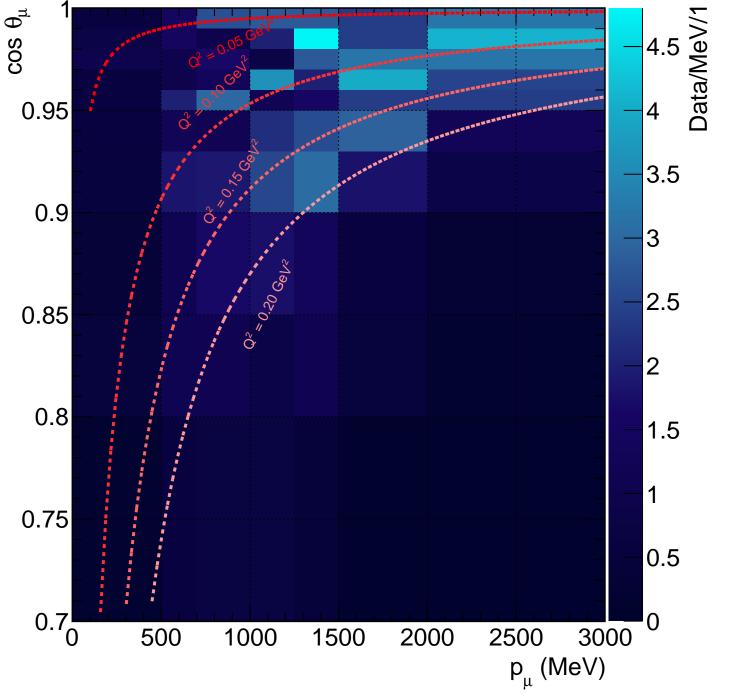
FGD1  $\nu_{\mu}$  RHC CC 1 track MC: 86.203



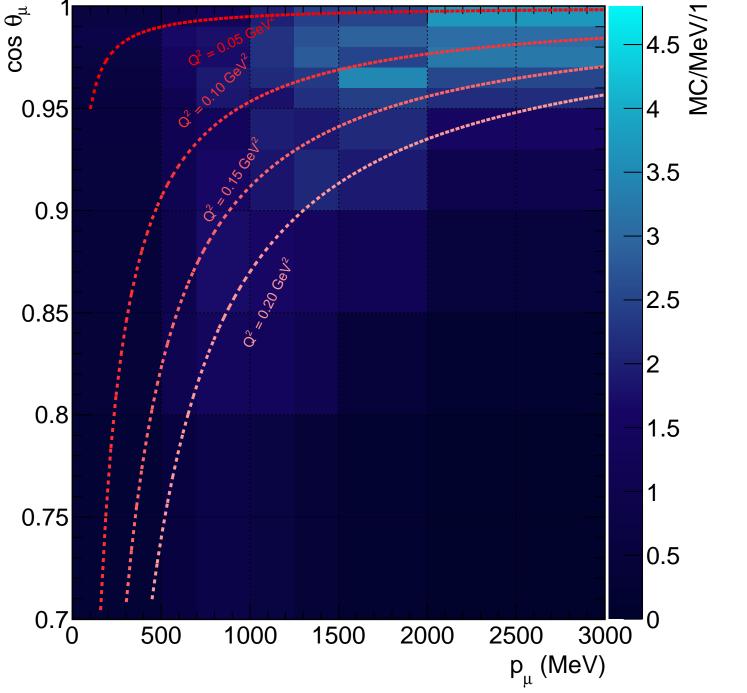
FGD1  $\nu_{\mu}$  RHC CC 1 track  $\,$  ratio



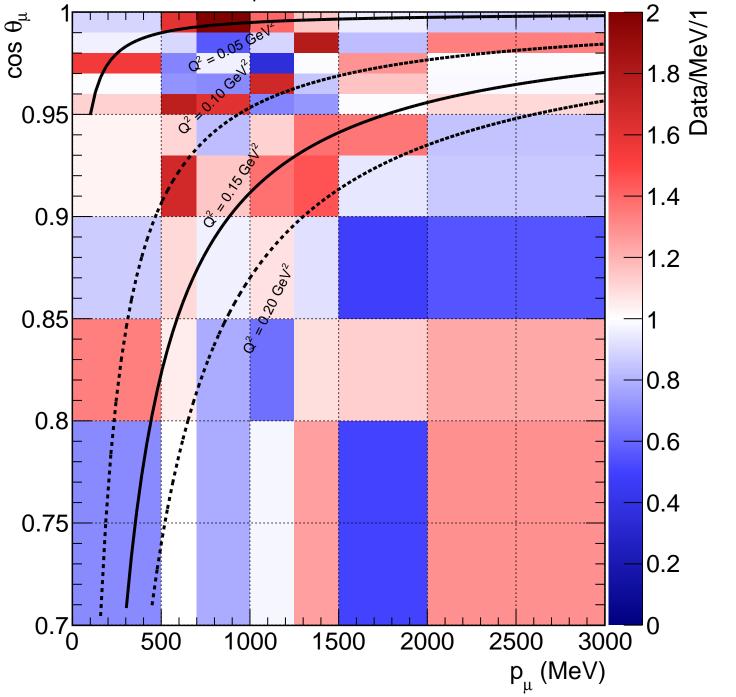
FGD1  $\nu_{\mu}$  RHC CC N tracks data: 119.81



FGD1  $\nu_{\mu}$  RHC CC N tracks MC: 112.799



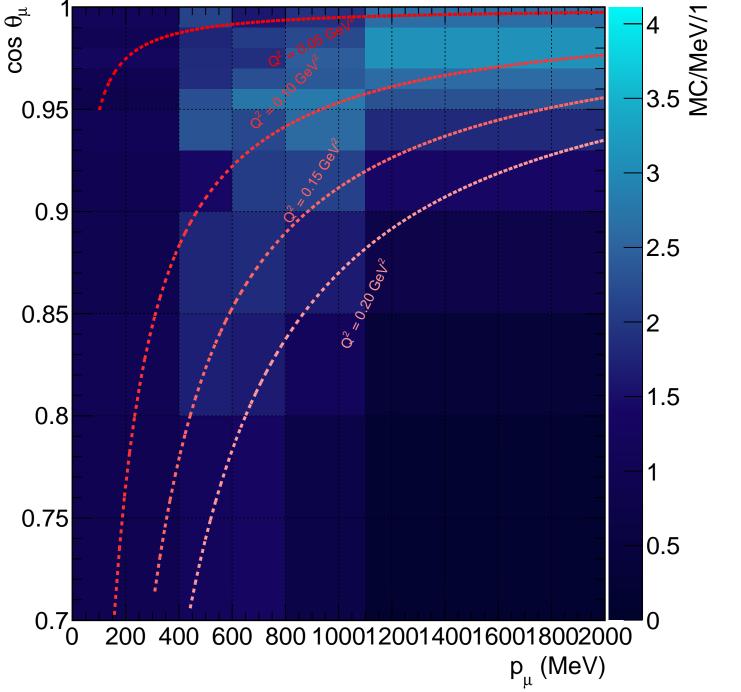
FGD1  $\nu_{\mu}$  RHC CC N tracks ratio



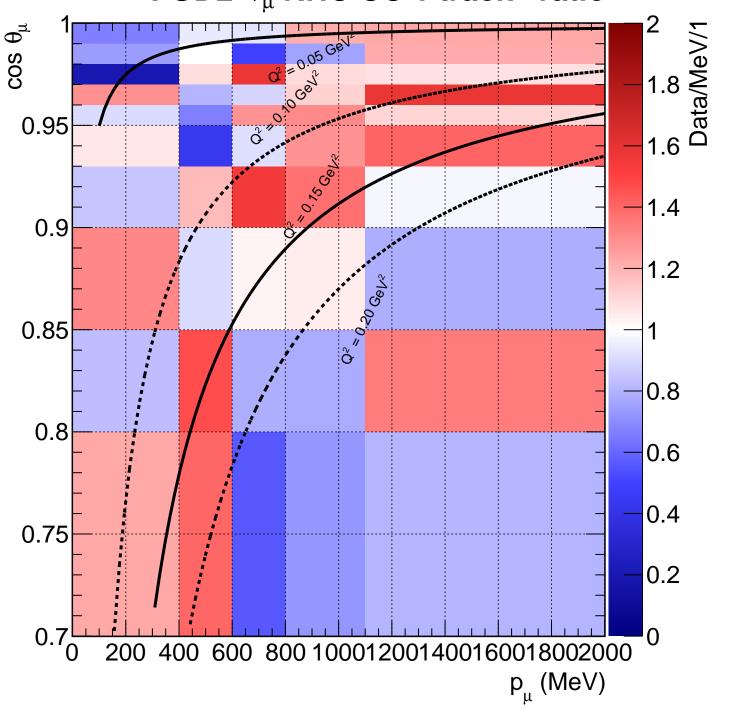
FGD2  $\nu_{\mu}$  RHC CC 1 track data: 93.49  $\cos \theta_{\mu}$ Data/MeV/1 0.95 3 0.9 2.5 0.85 2 1.5 8.0 0.75 0.5 0.7 400 600 800 100012001400160018002000

 $p_{\mu}$  (MeV)

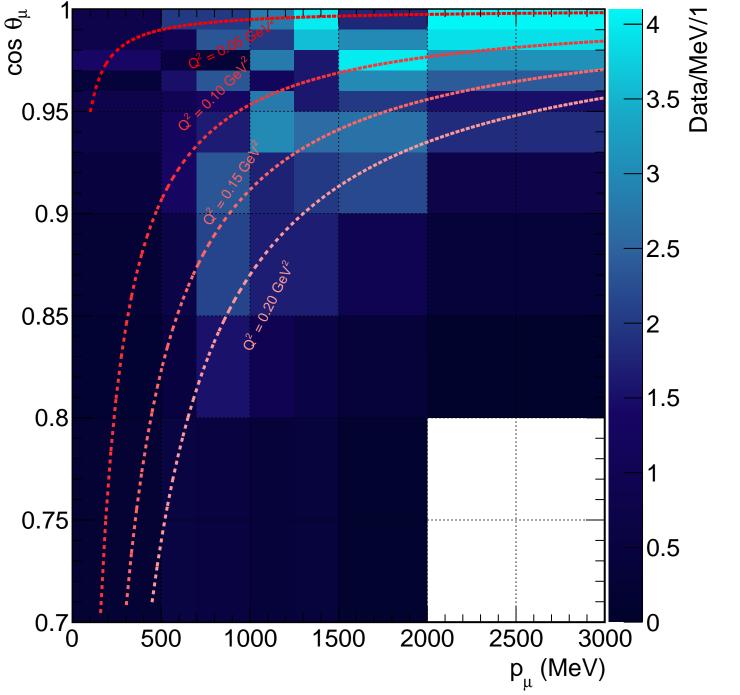
FGD2  $\nu_{\mu}$  RHC CC 1 track MC: 90.2373



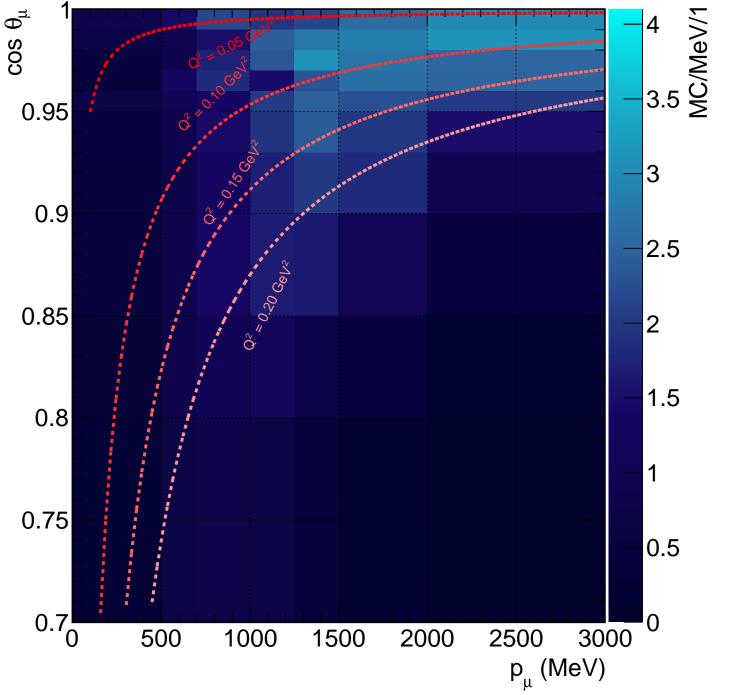
## FGD2 $\nu_{\mu}$ RHC CC 1 track ratio



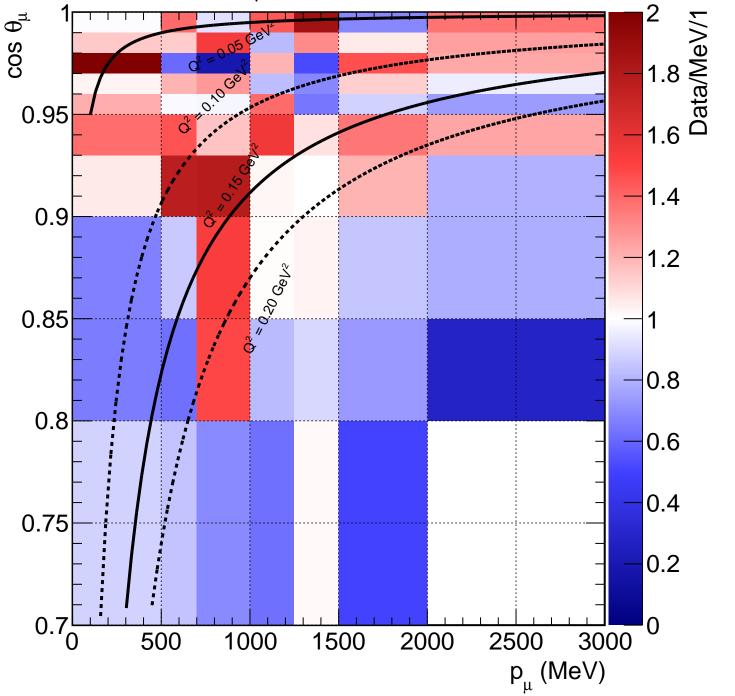
FGD2  $\nu_{\mu}$  RHC CC N tracks data: 114.89

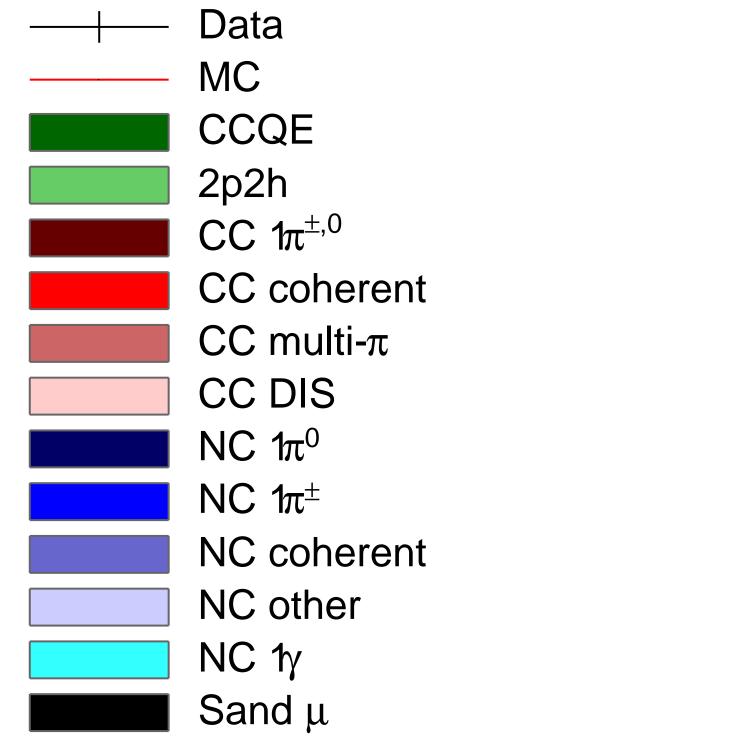


FGD2  $\nu_{\mu}$  RHC CC N tracks MC: 105.945

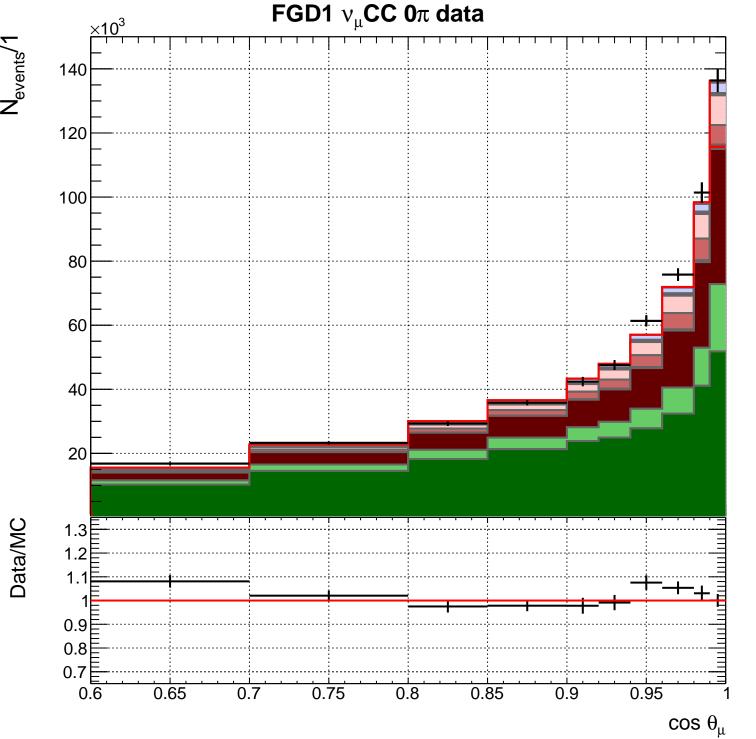


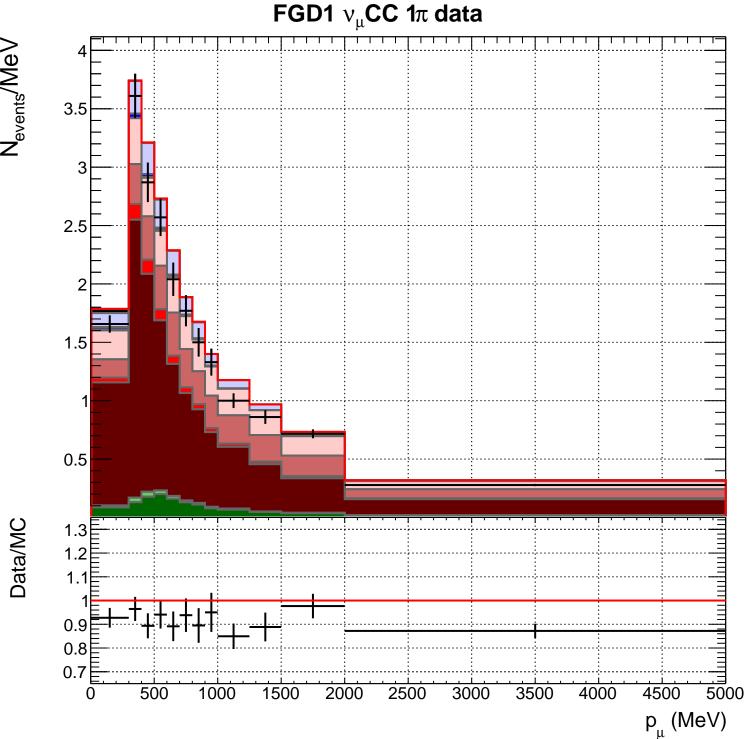
FGD2  $\nu_{\mu}$  RHC CC N tracks ratio



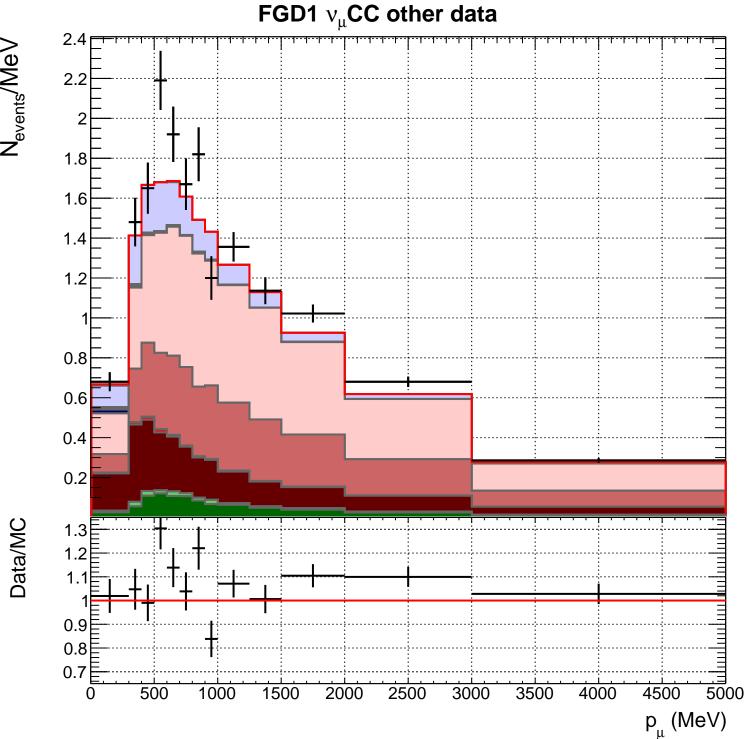


FGD1  $\nu_{\mu}$ CC  $0\pi$  data 1.3 0.9 0.8 0.7  $p_{\mu}$  (MeV)



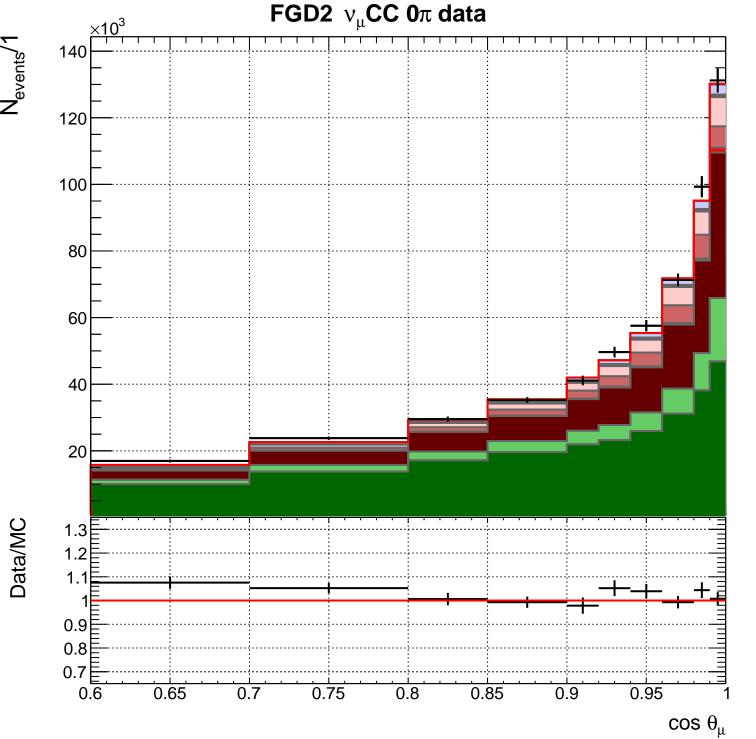


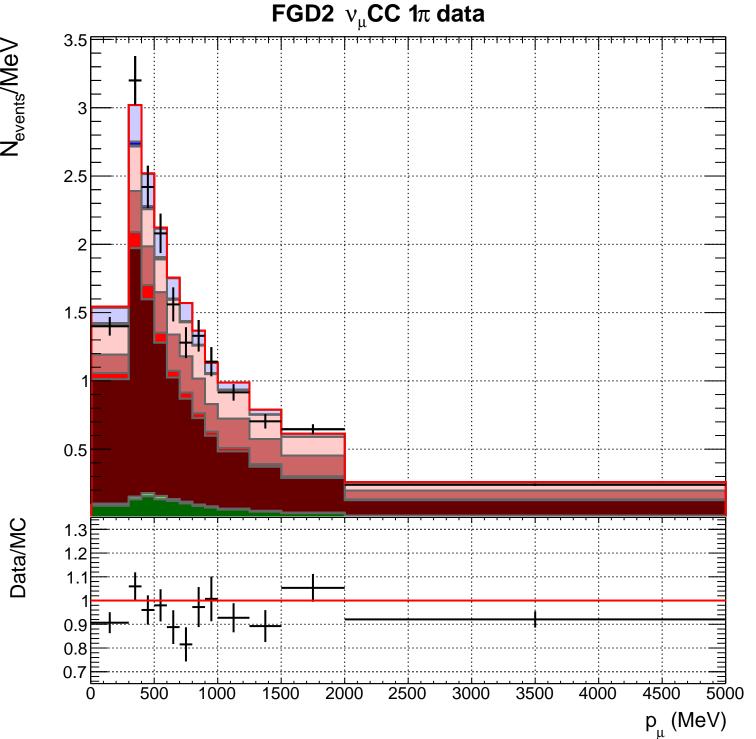
FGD1  $\nu_{\mu}$ CC 1 $\pi$  data 45000 40000 35000 30000 25000 20000 15000 10000 5000 Data/MC 1.3 1.2 0.9 0.8 0.7  $0.\overline{6}$ 0.65 0.75 0.8 0.85 0.9 0.95 0.7  $\text{cos }\theta_{\mu}$ 

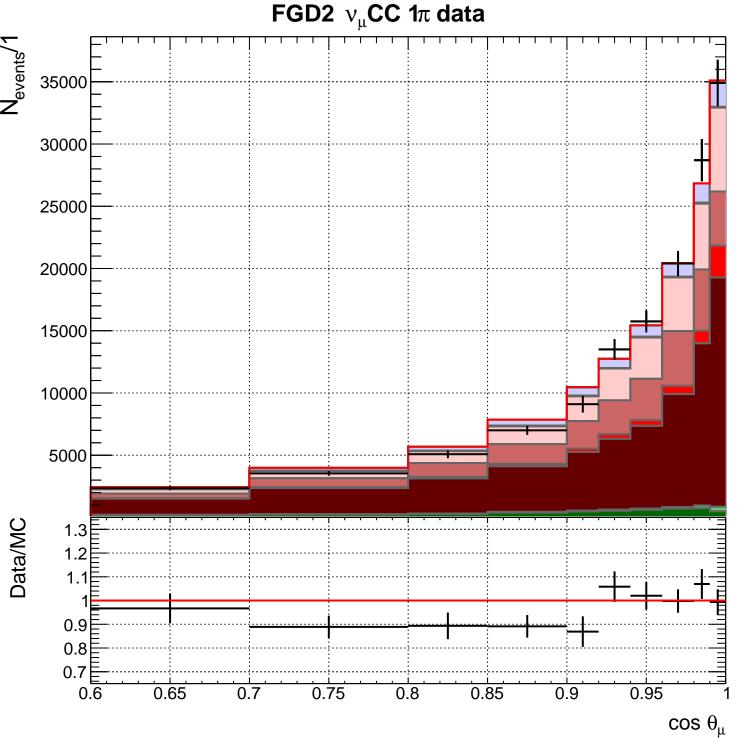


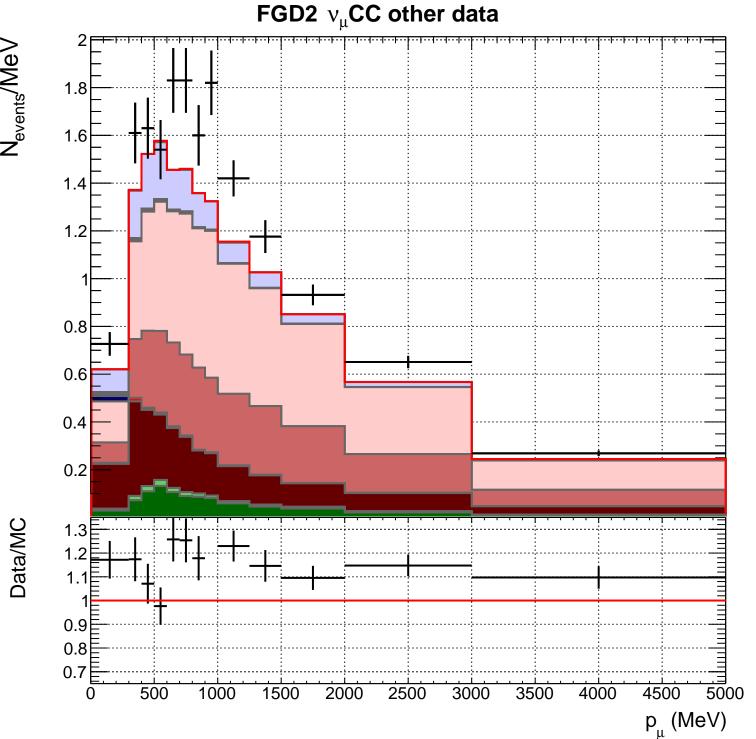
FGD1  $\nu_{\mu}\text{CC}$  other data 50000 40000 30000 20000 10000 Data/MC 1.3 1.2 0.9 8.0 0.7  $0.\overline{6}$ 0.65 0.75 0.8 0.85 0.9 0.95 0.7  $\text{cos }\theta_{\mu}$ 

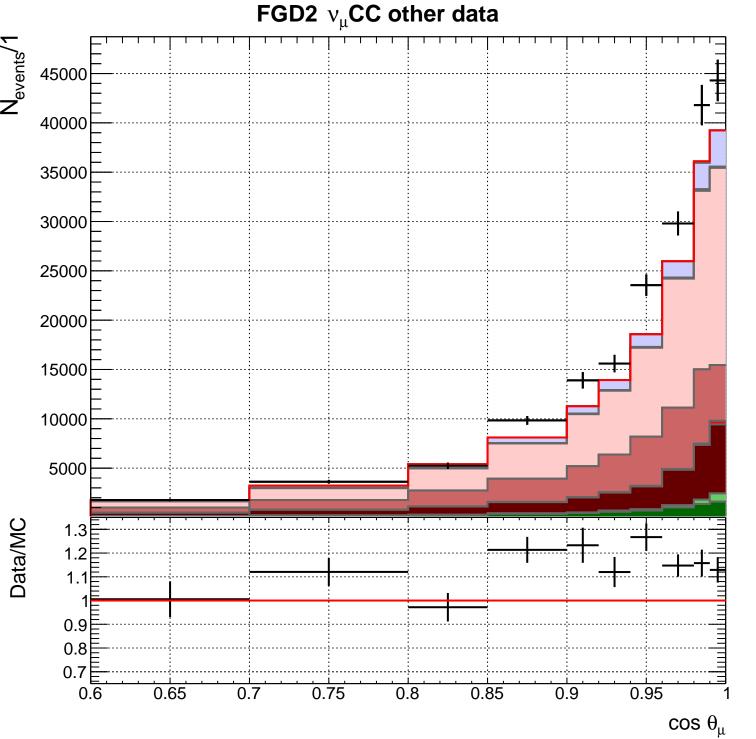
FGD2  $\nu_{\mu}$ CC  $0\pi$  data Data/MC 1.3 1.2 0.9 0.8 0.7  $p_{\mu}$  (MeV)

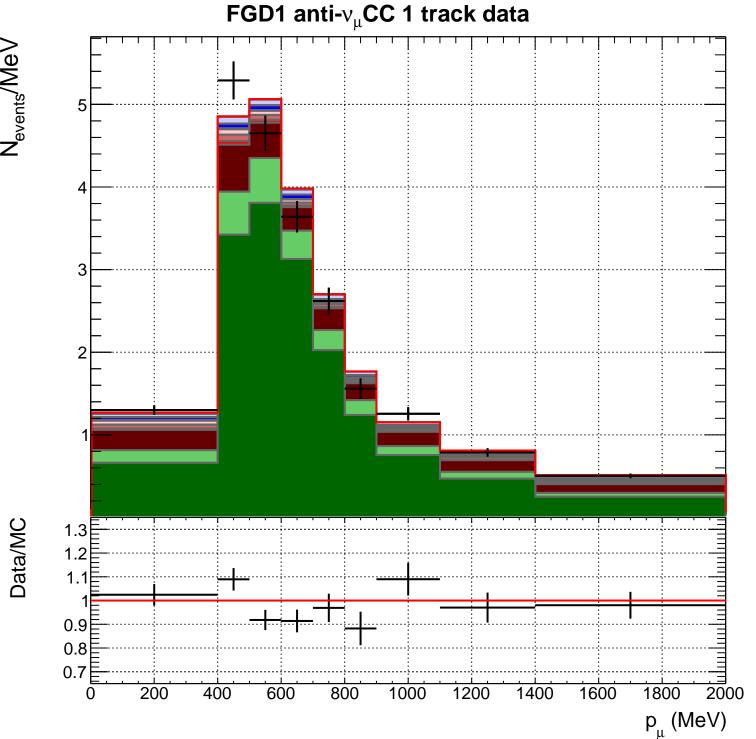


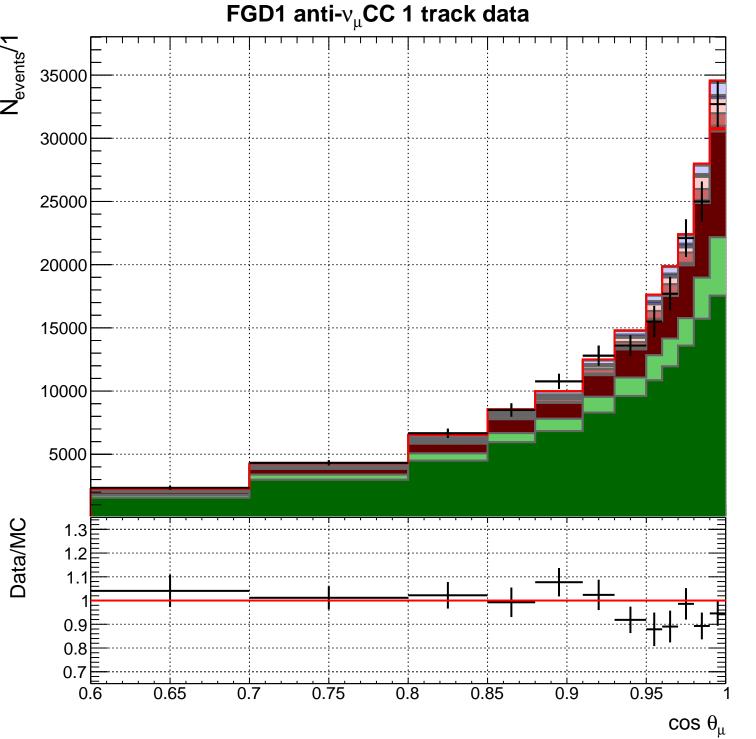


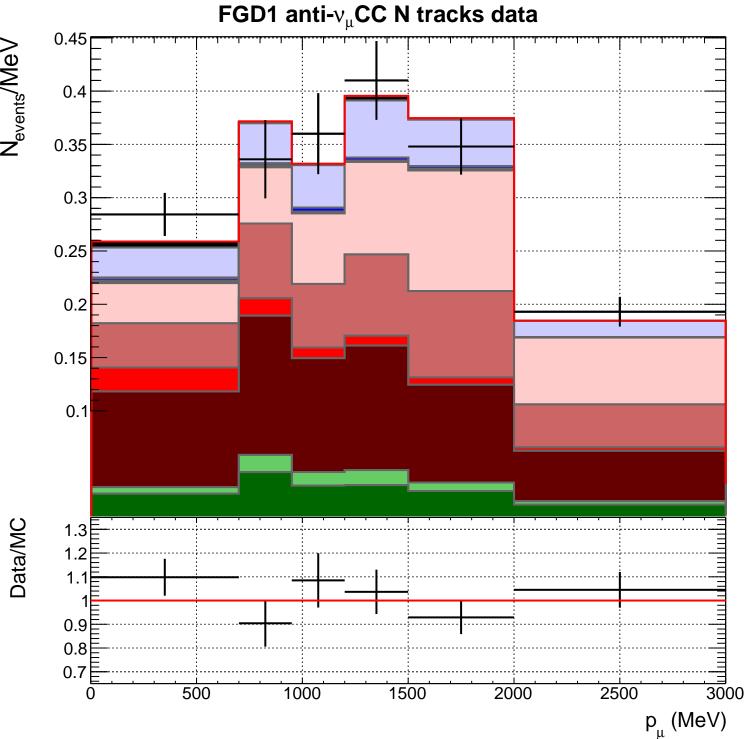


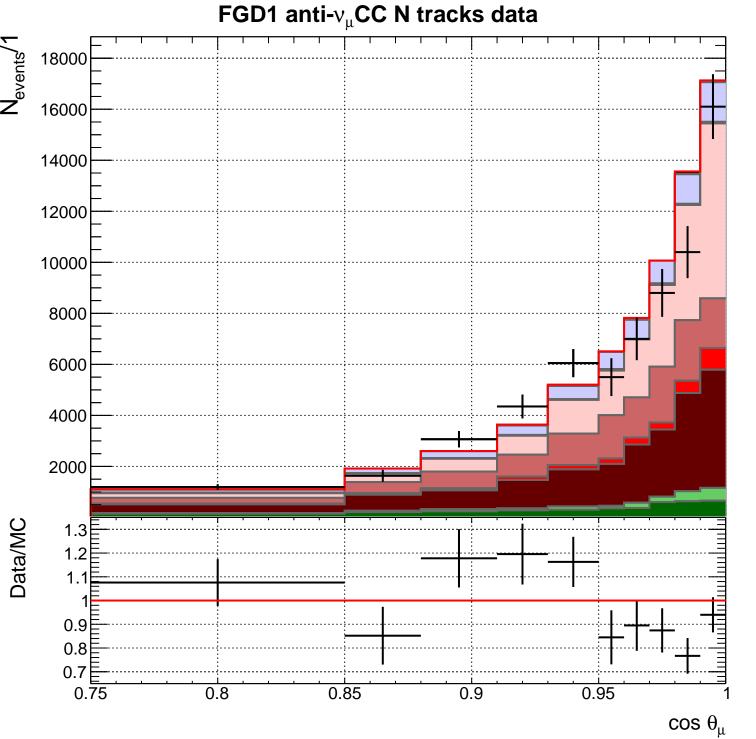


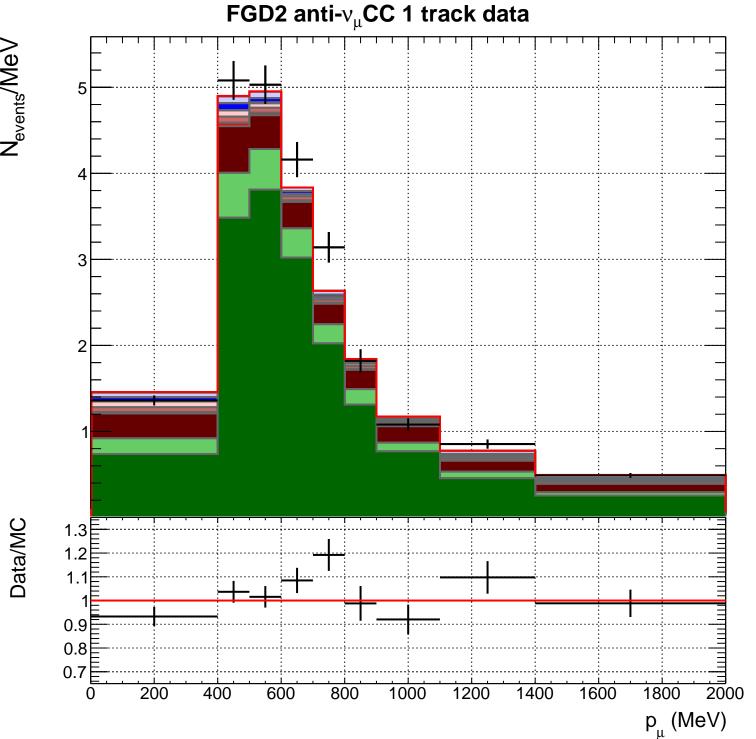




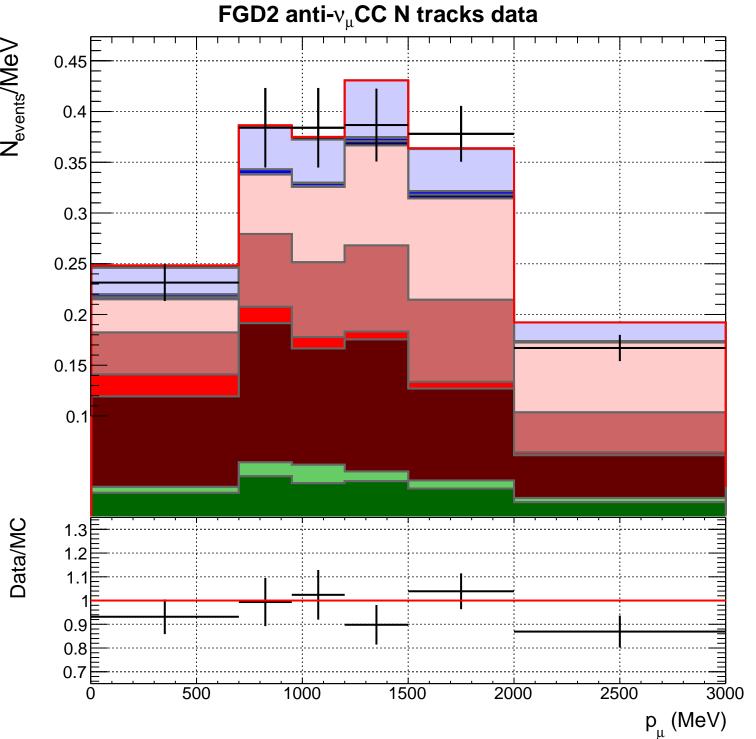




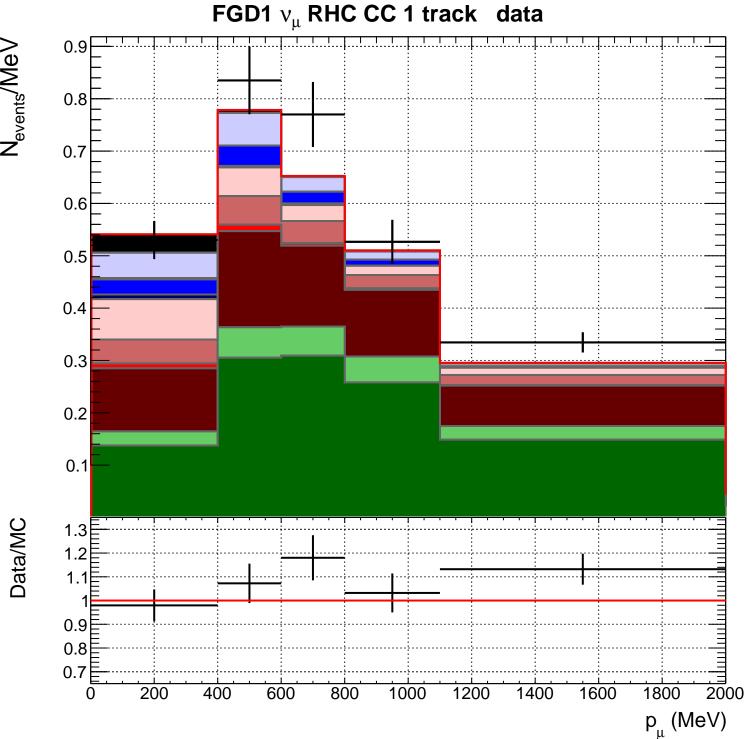


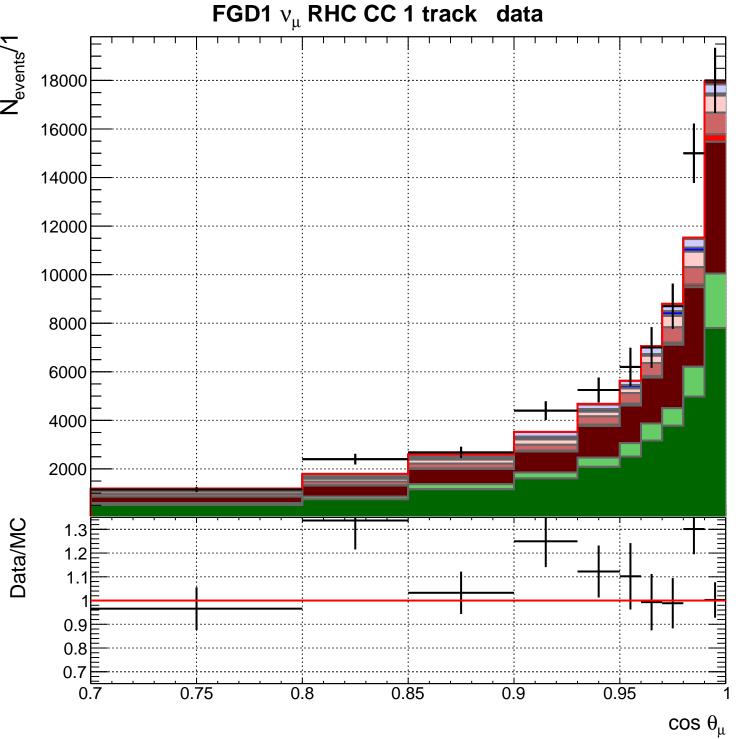


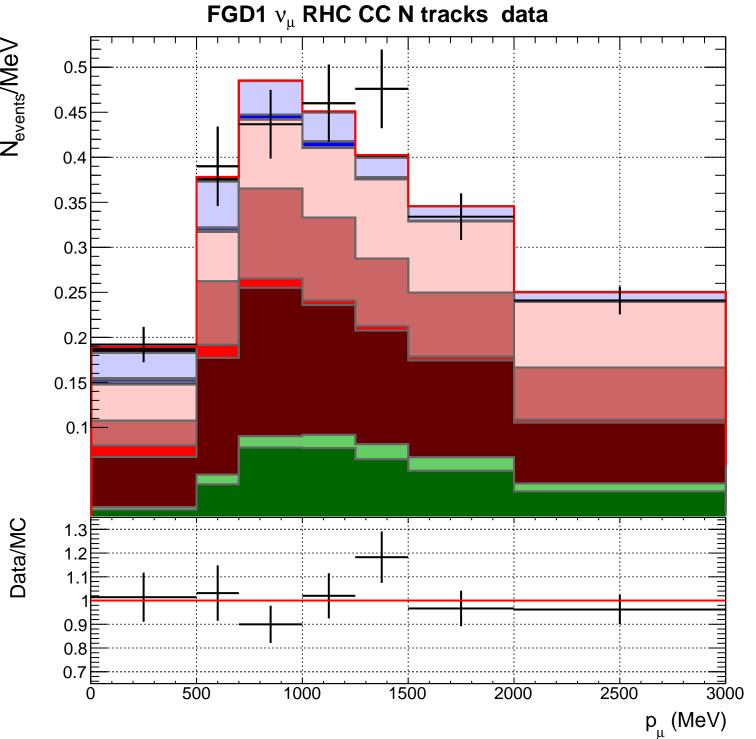
FGD2 anti- $\nu_{\mu}$ CC 1 track data 35000 30000 25000 20000 15000 10000 5000 Data/MC 1.3 1.2 0.9 0.8 0.7  $0.\overline{6}$ 0.65 0.75 0.8 0.85 0.9 0.95 0.7  $\text{cos }\theta_{\mu}$ 

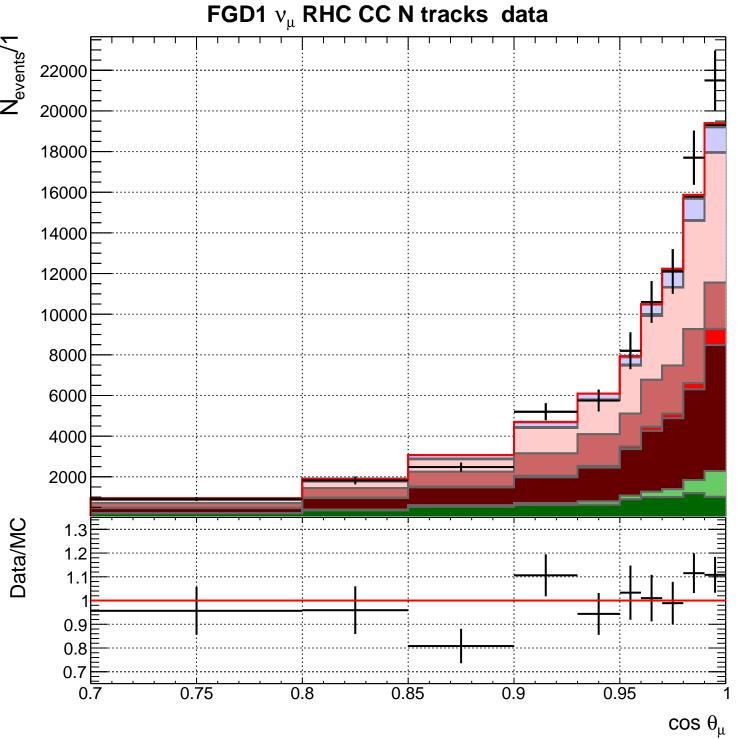


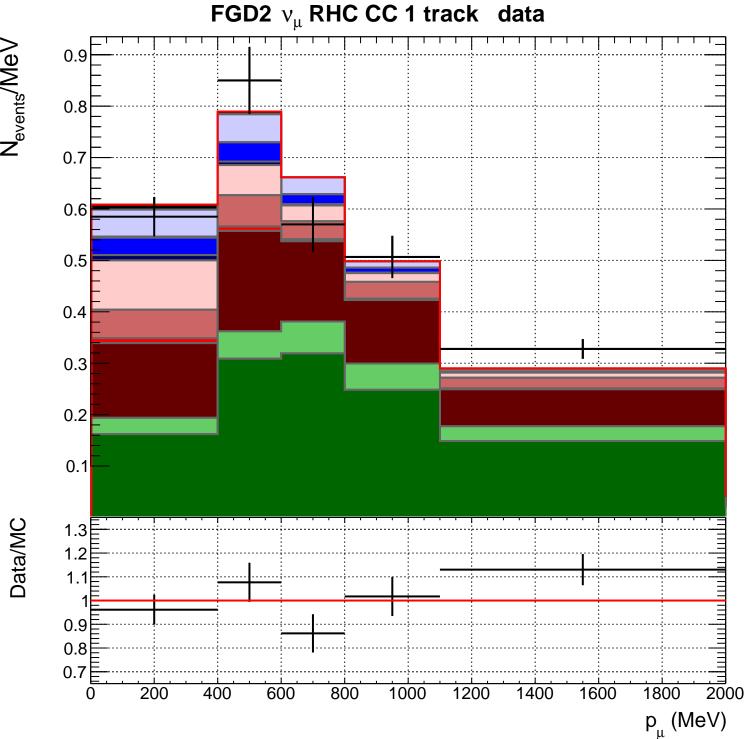
FGD2 anti- $\nu_{\mu}$ CC N tracks data 20000 18000 16000 14000 12000 10000 8000 6000 4000 2000 Data/MC 1.3 1.2 0.9 0.8 0.7 0.750.95 8.0 0.85 0.9  $\cos\,\theta_\mu$ 

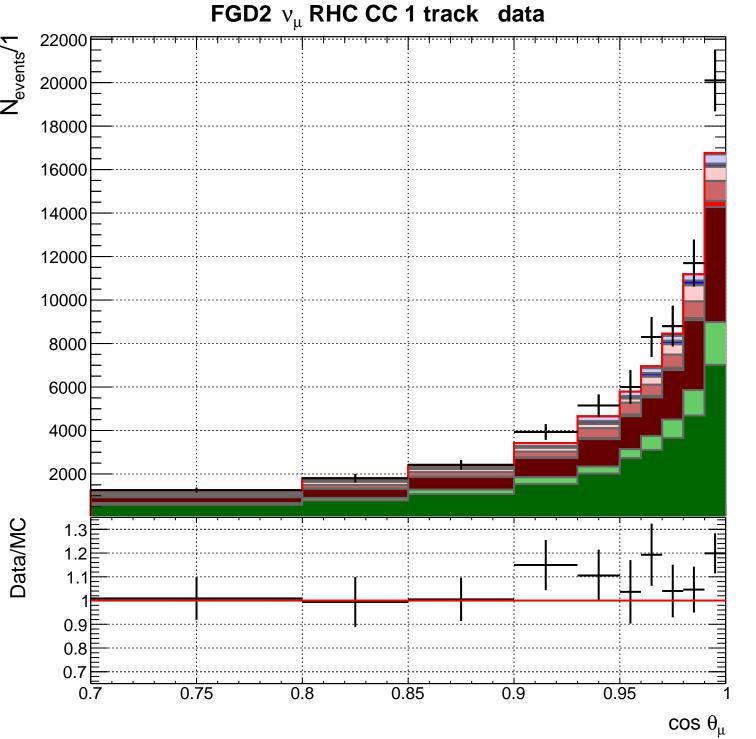


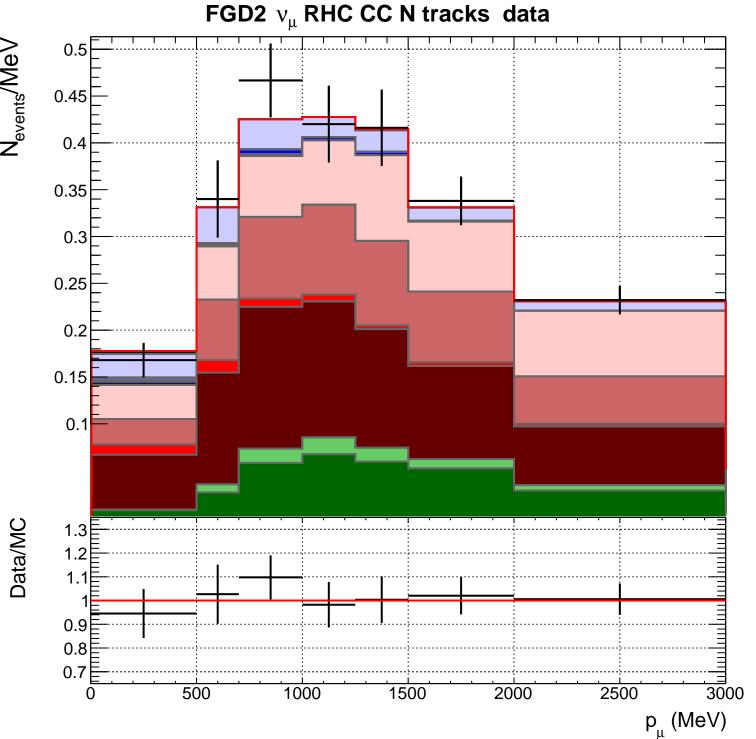












FGD2  $\nu_{\mu}$  RHC CC N tracks data 22000 20000 18000 16000 14000 12000 10000 8000 6000 4000 2000 Data/MC 1.3 1.2 0.9 0.8 0.7 0.75 8.0 0.85 0.95 0.7 0.9  $\text{cos }\theta_{\mu}$