## **Neutrino Oscillation for Reco w/ tagged neutrons Number of Neutrino Events** FHC $\nu_{\mu} \rightarrow \nu_{\mu}$ MC(w/ tagged neutrons) 1000 $0.6 \le \cos\theta_{\shortparallel} \le 1$ CCQE(1p1h) CC(2p2h+others) 800 $CCRES(\Delta^{+})$ $CCRES(\Delta^{++})$ $CCRES(\Delta^0)$ 600 **CC-other** NC 400 200 00 0.5 Reconstructed Neutrino Energy E, [GeV]