

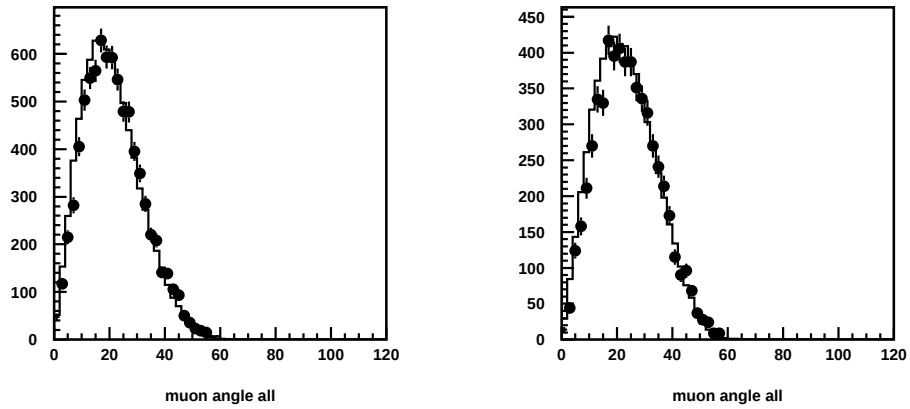
SciFi Angular Distributions

15 December 2004.

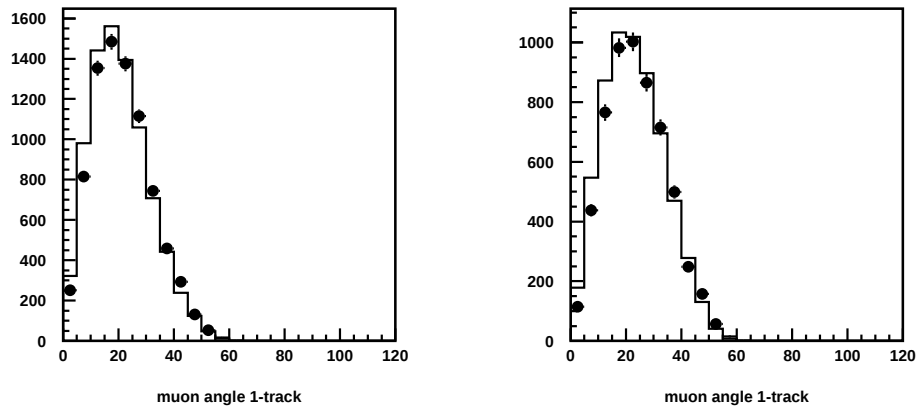
Rik Gran

There is some interest in the discrepancy in the proton angle distribution in both SciFi and SciBar data. One of several possible causes for such a discrepancy is the amount of proton rescattering incorporated into NEUT.

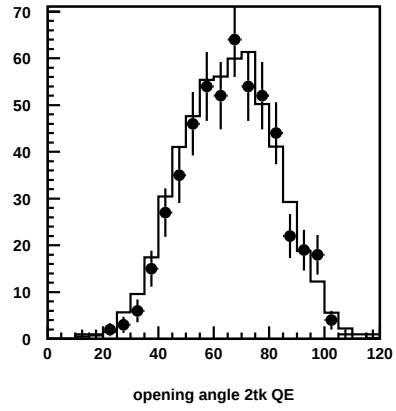
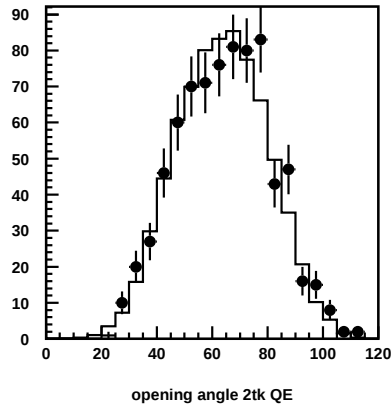
Here are the basic angle distributions for SciFi data. The normalization in each case is the MRD sample (without 1L events for K2K-IIa) excluding events with muon angle less than 10 degrees. No corrections such as DIS, Coherent Pion, proton rescattering, or neutrino flux, lead glass density, or n_{qe}/q_e are applied to the MC for these distributions.



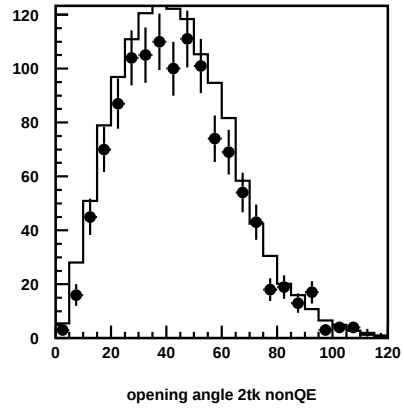
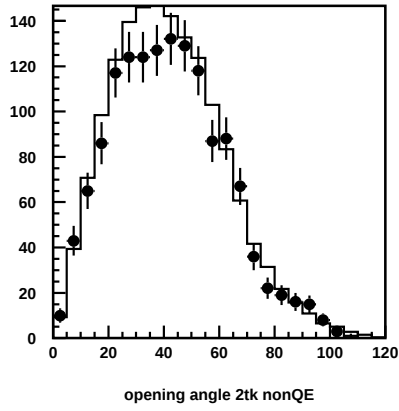
Muon angle for all data. Left: K2K-I. Right: K2K-IIa.



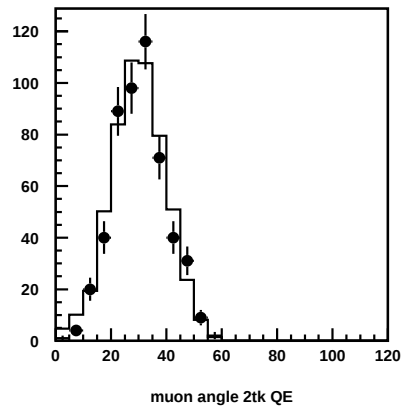
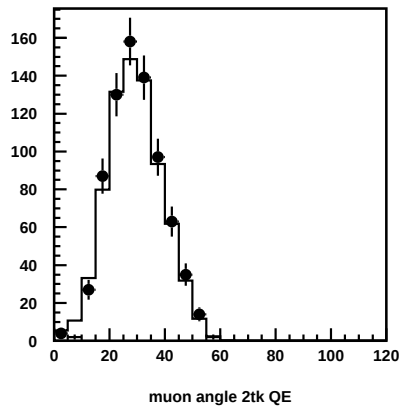
Muon angle for 1 track sample. Left: K2K-I. Right: K2K-IIa.



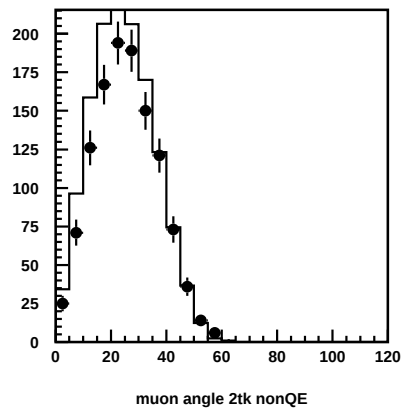
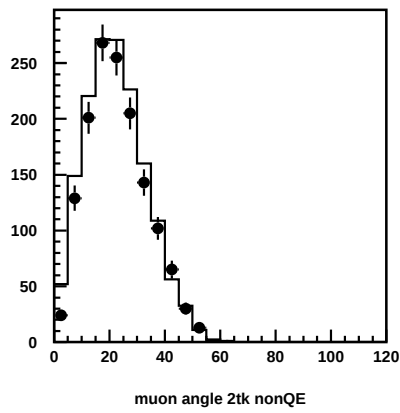
Opening angle for 2 track QE. Left: K2K-I. Right: K2K-IIa.



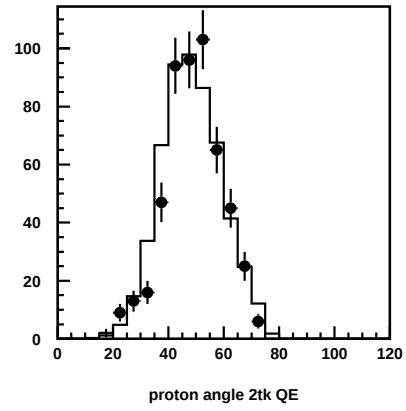
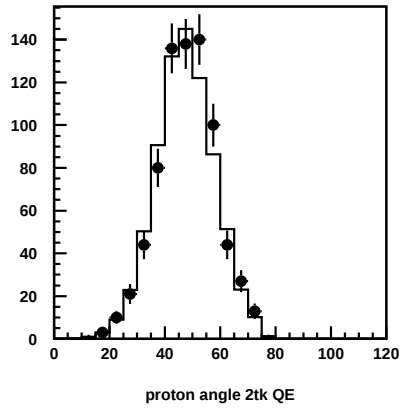
Opening angle for 2 track nonQE. Left: K2K-I. Right: K2K-IIa.



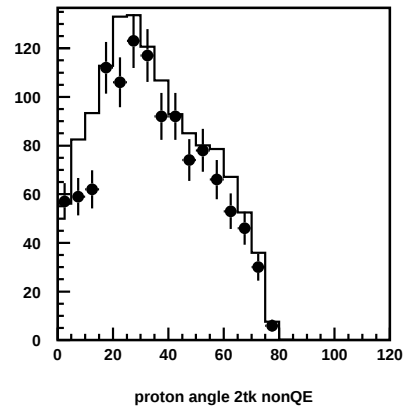
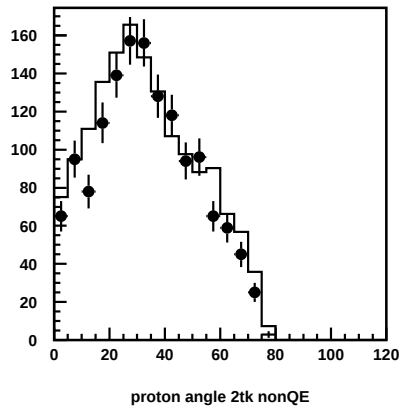
Muon angle for 2 track QE. Left: K2K-I. Right: K2K-IIa.



Muon angle for 2 track nonQE. Left: K2K-I. Right: K2K-IIa.



2nd-track angle for 2 track QE. Left: K2K-I. Right: K2K-IIa.



2nd-track angle for 2 track nonQE. Left: K2K-I. Right: K2K-IIa.