Recap

1. Get function to show neutrino energy as function of parent pion energy and lab-frame decay angle, theta.



1. Match MINERvA data assuming spectrum created by theta=0 pion decays and all energies contribute (ie ignoring finite decay pipe)



1. Using incident pion energies from 2), calculate:-
2. Per energy slice, number of expected decays per ns
3. Convert i) into expected decays/energy/meter in decay pipe
4. Apparent detector cross-section for decays in ii) using detector dimensions and SR
5. Expected neutrino spectrum using ii) and iii)
6. Combined spectrum for iv) for several different slices through detector





To check:

* Shorten decay pipe for step 2 and re-match distribution
* Check slicing working properly with multi-distribution
* Recalculate apparent target on per-slice basis