ANNIE-EOI Discussion;  
A Brief Update on the Reconstruction;  
Time table;  

Dec 04, 2013
Open questions

- What is the distribution of neutron energies predicted by Nuance + Geant?
- How far do neutrons of a given energy travel from the interaction point?
- What size fiducial cut is necessary to contain these neutrons?
- Comparison of neutron yield vs q^2 for different MC
- What are the exact characteristics of the atmospheric bkgd events in the SK PDK plots
- Are there other handles on these backgrounds?
- How could this be important to the neutrino interaction community?
Neutrons in the Nuance File

ANNIE meeting – Dec, 2013

Wednesday, December 4, 13
Distance traveled by neutrons along the track direction

- Distance from vertex along track direction in mm
- Neutron energy (MeV)

Graphs showing the relationship between neutron energy and distance traveled along the track direction.
Proposed Roadmap for the Next Several Months

November
- Finish Current Simulations
- Submit whitepaper on arXiv

December
- LAPPD commercialization and early adopters meeting - Nov 18-19
- EOI due - Dec 16

January
- PAC Meeting - Jan 22-24
- Detailed project plan and budget

February
- Full WCSim Model
- Some Reconstruction

March
- ANNIE as a Formal Collaboration
- ANNIE collaboration meeting

Technical Working Group Meetings
- MRD
- Photodetectors
- Electronics and DAQ
- LAB
- Physics
- Mechanical Design
- Reco & Sim

Consider alternate locations