



University of Chicago



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

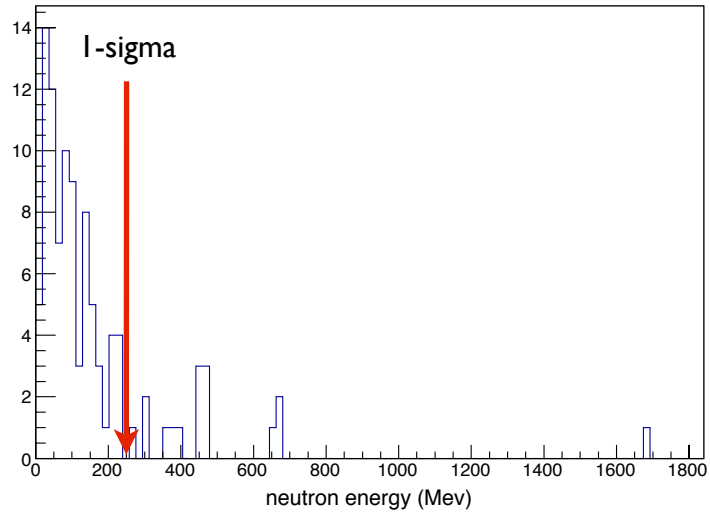
Dec 04, 2013



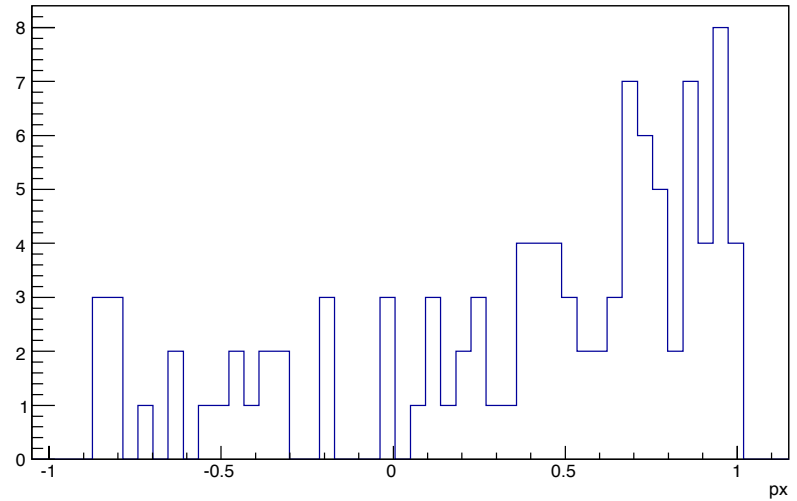
Open questions

- 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?

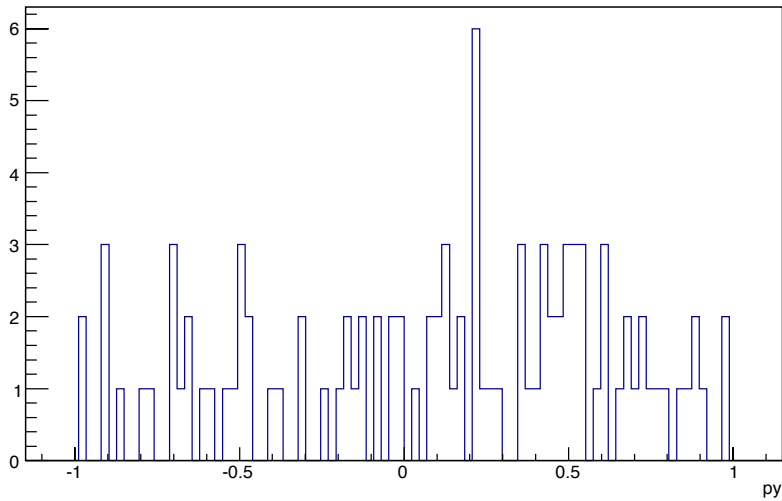
Neutrons in the Nuance File



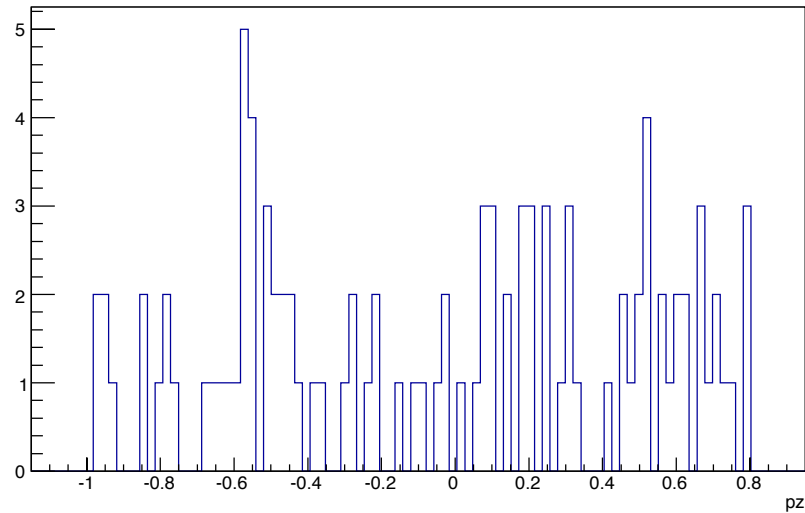
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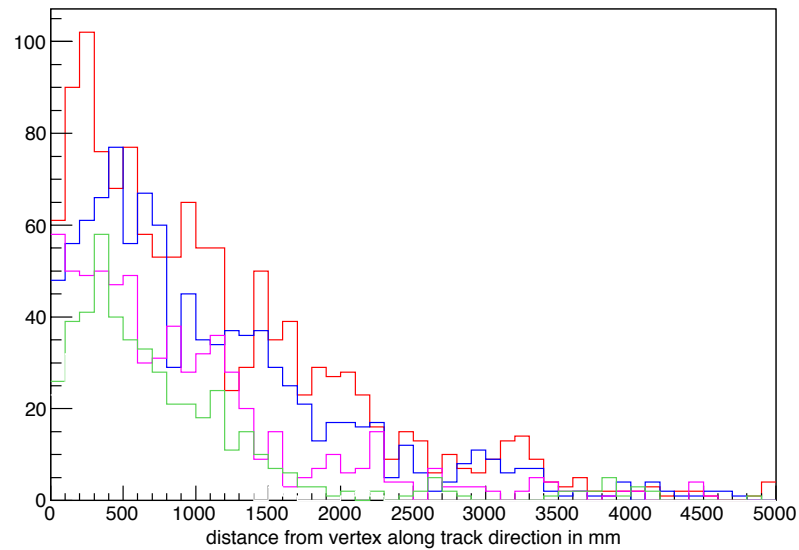
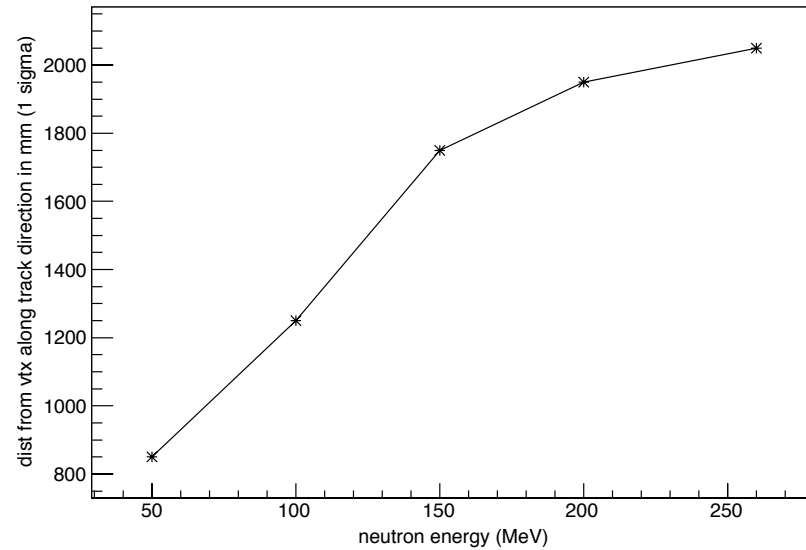
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Distance traveled by neutrons along the track direction



Proposed Roadmap for the Next Several Months

Technical Working Group Meetings

- MRD
- Photodetectors
- Electronics and DAQ
- LAB
- Physics
- Mechanical Design
- Reco & Sim

Consider alternate locations

Finish Current Simulations
Submit whitepaper on arXiv

LAPPD commercialization and early adopters meeting - Nov 18-19

November

December

EOI due - Dec 16

Detailed project plan and budget

January

PAC Meeting - Jan 22-24

Full WCSim Model
Some Reconstruction

February

ANNIE as a Formal Collaboration

ANNIE collaboration meeting

March

ANNIE meeting - Dec, 2013

