



Vertical drift production and the TDR plans

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FD sim/reco WG meeting
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The production

- The '30 deg' production has completed, many thanks to the production team for a quick turnaround
 - A remaining 5% of events are still being produced; these events keep the raw digits in the output file
- The SAM defs:
 - `FDVDPRod2_nu_30deg_NoRawDigits_reco_v09_53_00d02`
 - `FDVDPRod2_nu_numu2nue_nue2nutau_30deg_NoRawDigits_reco_v09_53_00d02`
 - `FDVDPRod2_nu_numu2nutau_nue2numu_30deg_NoRawDigits_reco_v09_53_00d02`
 - `FDVDPRod2_anu_30deg_NoRawDigits_reco_v09_53_00d02`
 - `FDVDPRod2_anu_numu2nue_nue2nutau_30deg_NoRawDigits_reco_v09_53_00d02`
 - `FDVDPRod2_anu_numu2nutau_nue2numu_30deg_NoRawDigits_reco_v09_53_00d02`
- These events are to be used for plot making/analysis in the vertical drift TDR
- The '48 deg' is still ongoing
 - Depending on the timescales, the '48 deg' events may also feature in the TDR

TDR plot shopping list

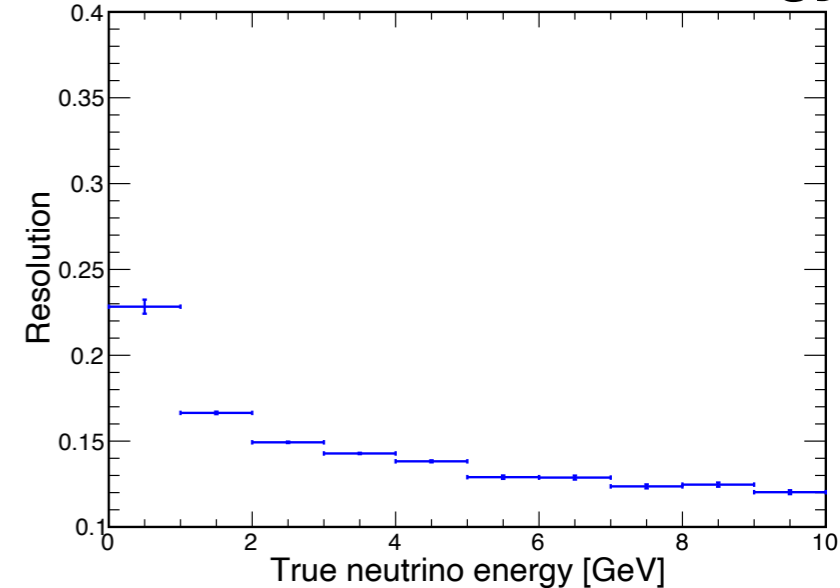
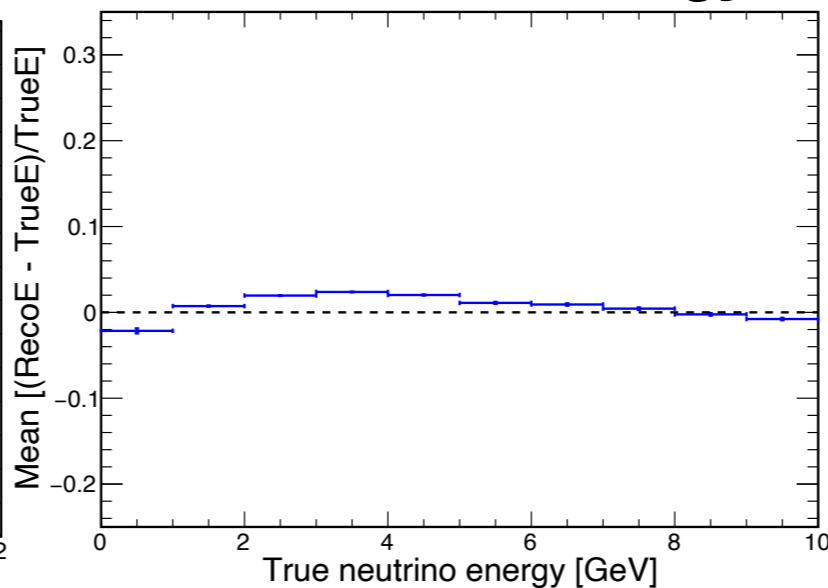
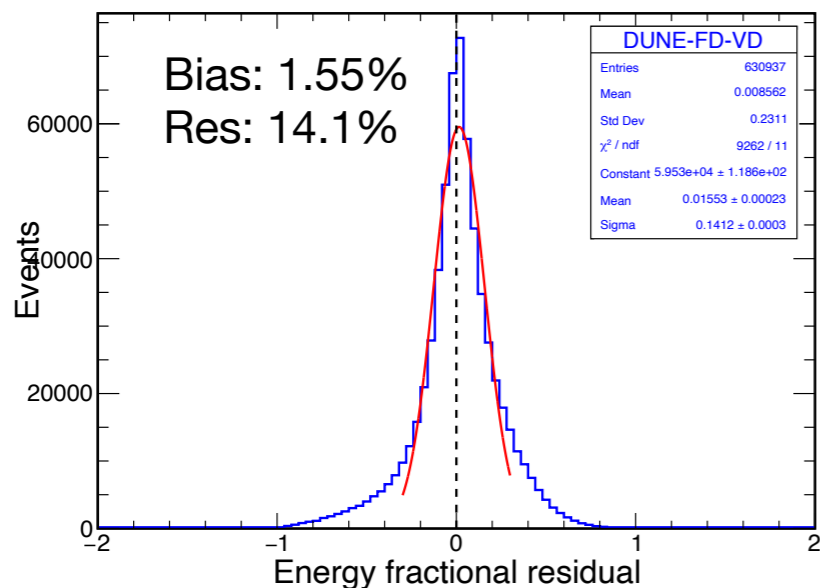
- The groups ongoing work will be one of the main contributors to the physics chapter of the vertical drift TDR.
- We need to produce the plots/numbers that would feed into an LBL analysis:
 - **CVN (N. Nayak): ONGOING**
 - Efficiencies/purities vs true neutrino energy
 - Event scores
 - **Nu energy reco (W. Wu): FIRST DRAFT COMPLETED**
 - Biases & resolutions vs true neutrino energy
 - Reconstructed energies
 - **Pandora (M. Bridiga Brunetti): ONGOING**
 - Lepton reco. efficiencies vs true momenta
 - Lepton angular acceptances
- It's anticipated that the remaining plots will be completed within the next week

Energy residual

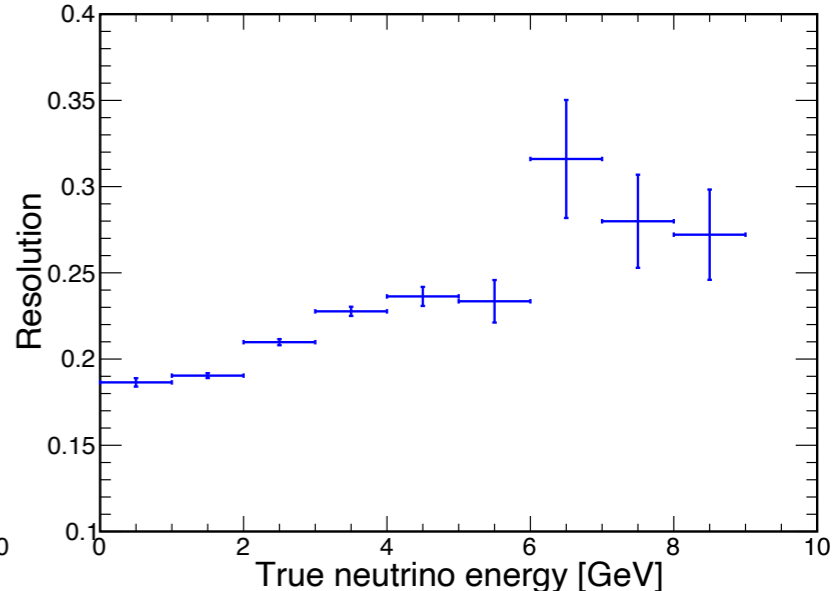
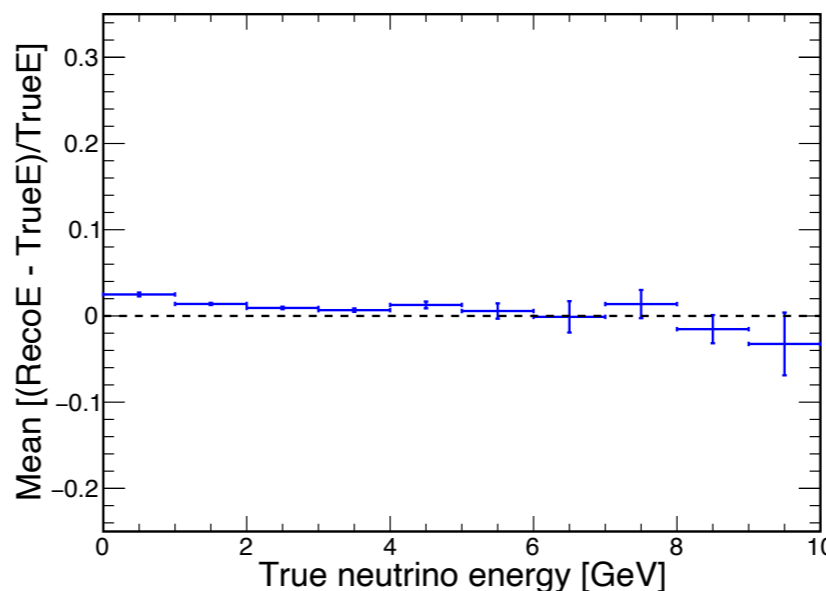
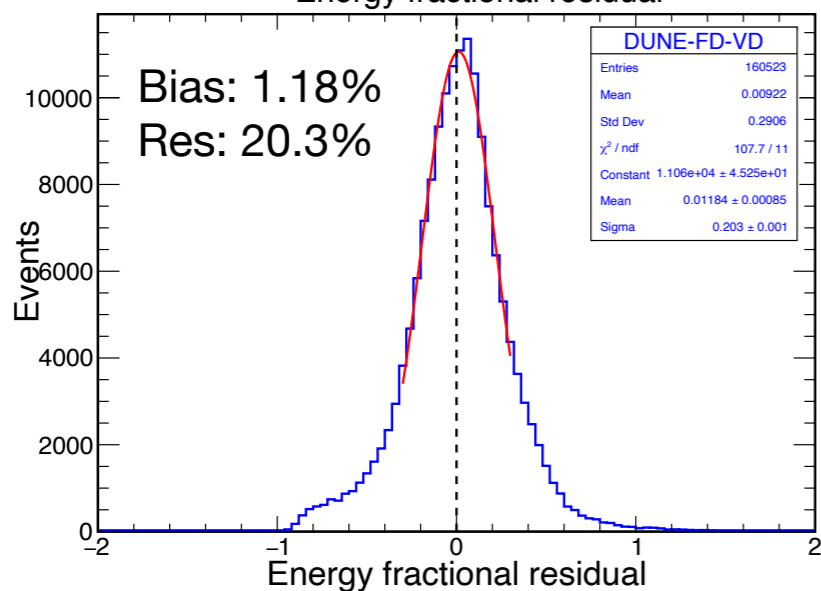
Bias vs true energy

Resolution vs true energy

ν_e



ν_μ
cont.



ν_μ
exit.

