Extrapolation Cross-Check

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ANL
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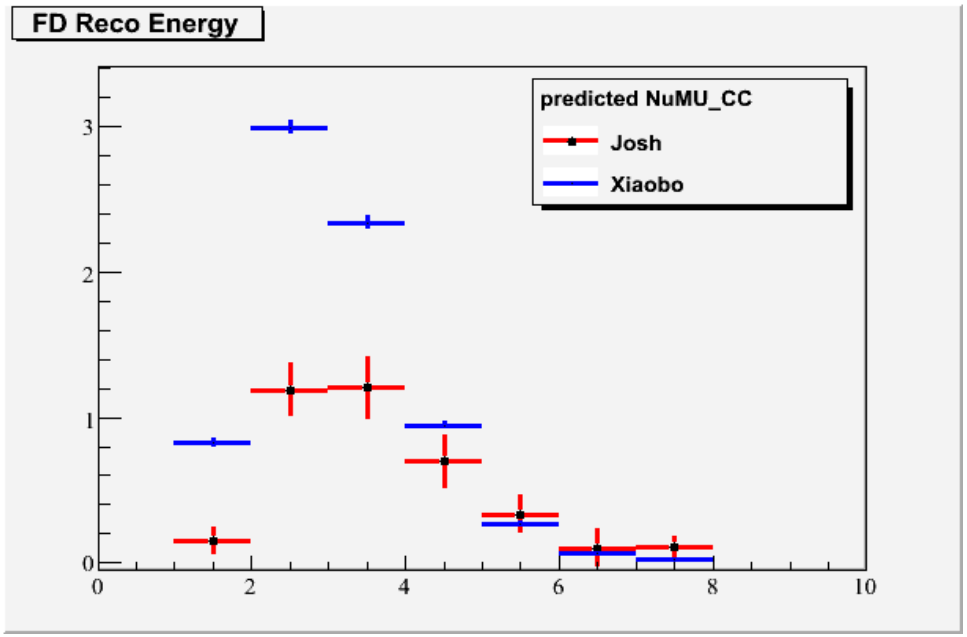
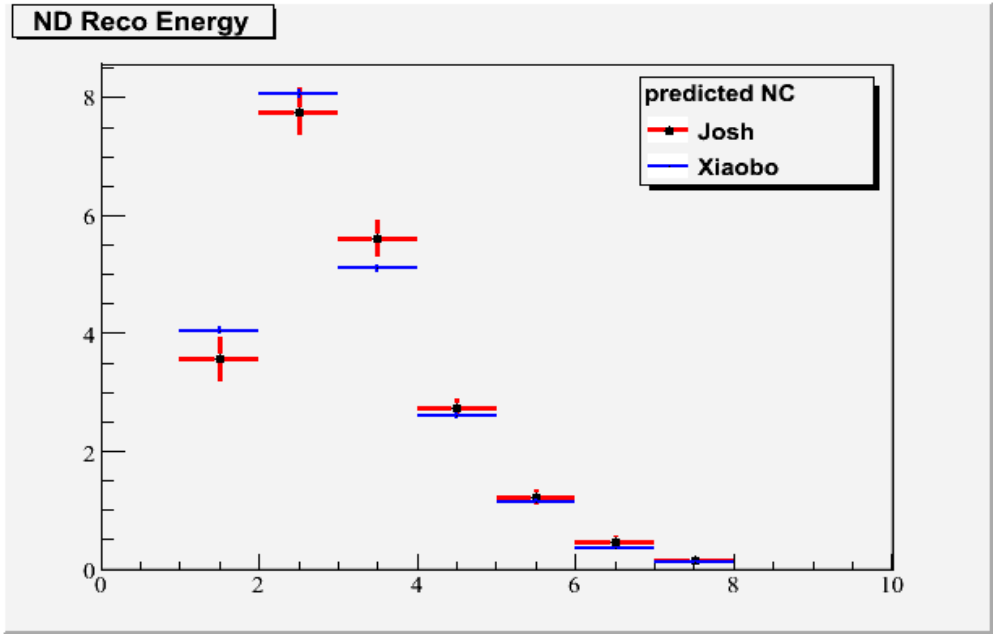
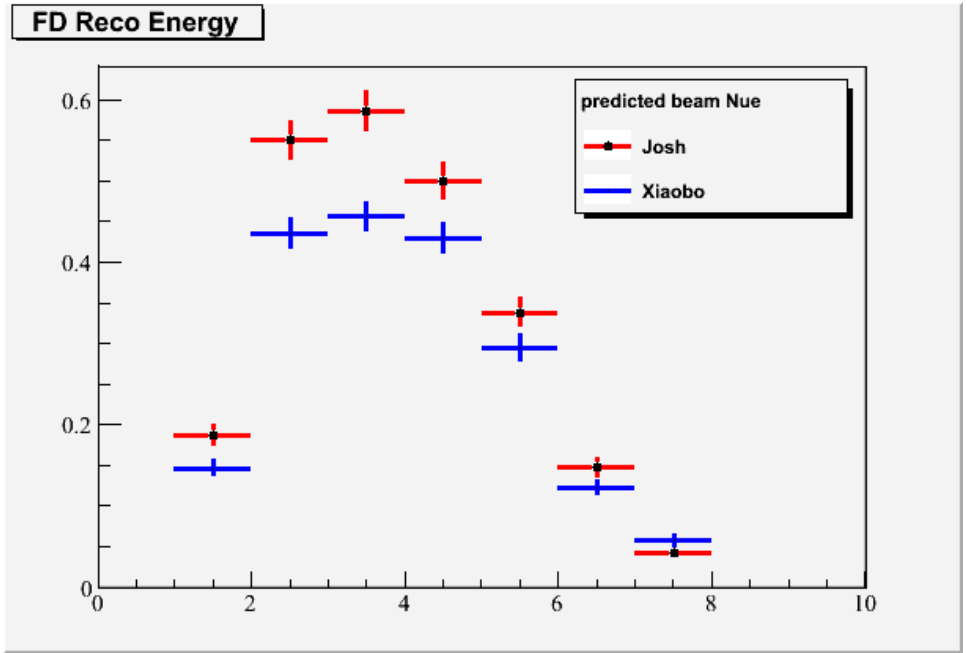
Predicted Events







- ANN11 and HOO data as an example here.
- No SKZP weighting and no oscillation

Selected Far/Near MC Events

near detector

	Xiaobo (no SKZP and Osc.)	Xiaobo (SKZP and Osc.)	Josh
NC	5893.92	4408.95	4429
CC	1711.71	1740.11	1742.2
Bnue	562.11	593.47	593.1

far detector

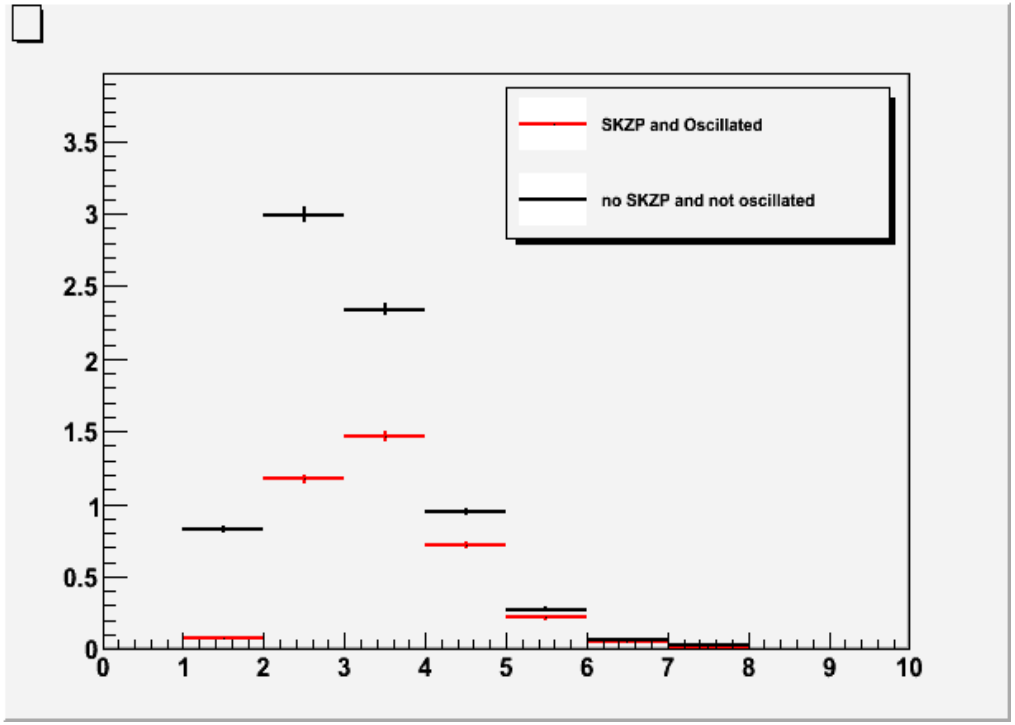
NC	23.05	25.58	25.56
CC	9.02	4.55	5.19
Bnue	2.19	2.2	2.35

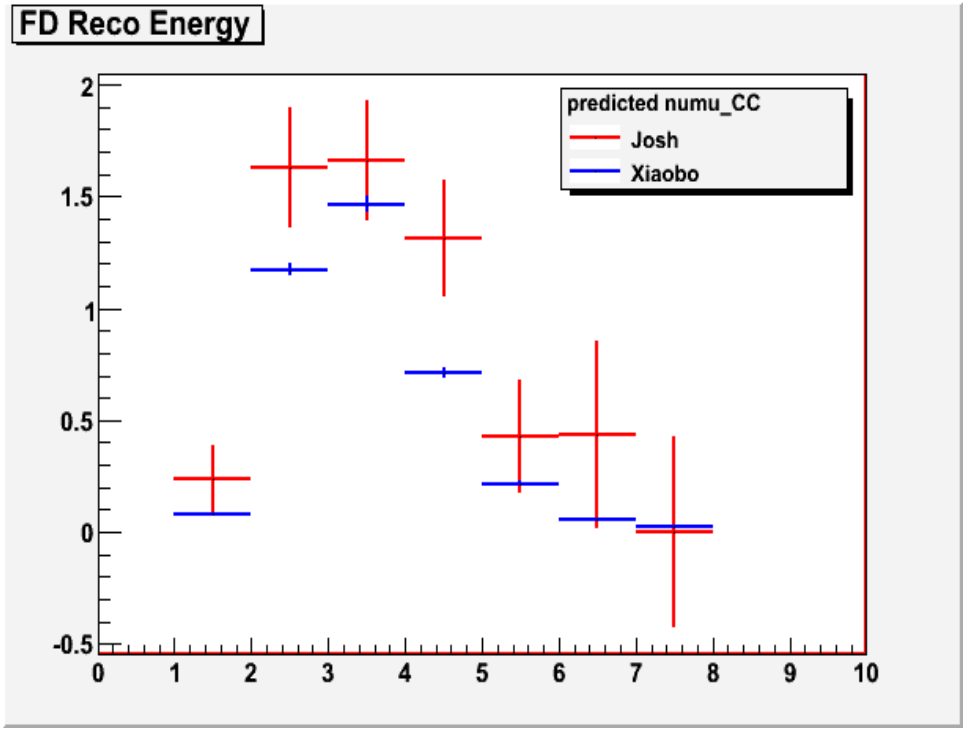
oscillation

Near detector normalized to 1e19 POT
Far detector normalized to 3.25e20 POT

Predicted Events

Predicted numu_CC events





However, there is still a small discrepancy exists.

Discussion

There is still a small discrepancy between the two extrapolations after I apply SKZP weighting and oscillation. The reason for this discrepancy is under investigation.