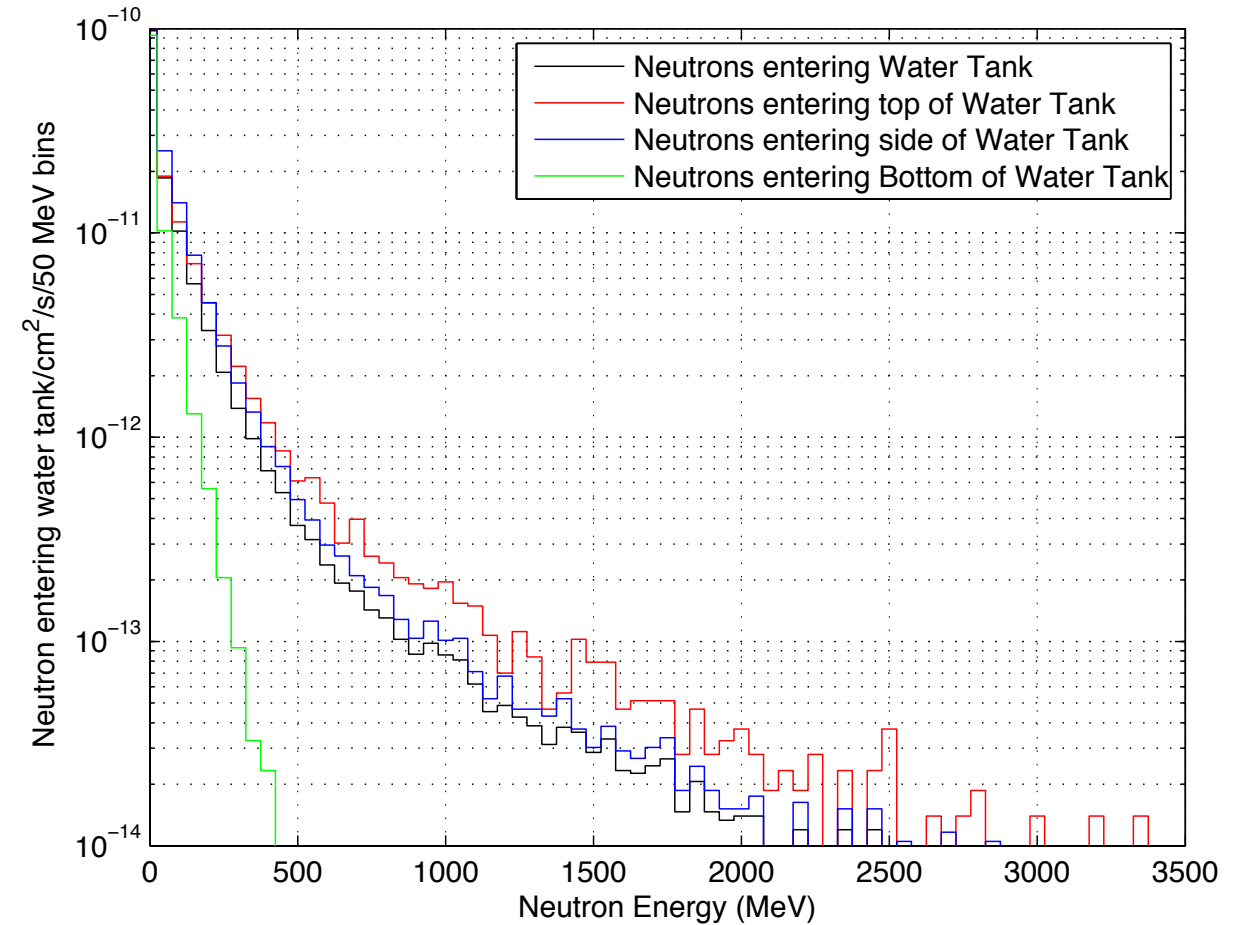
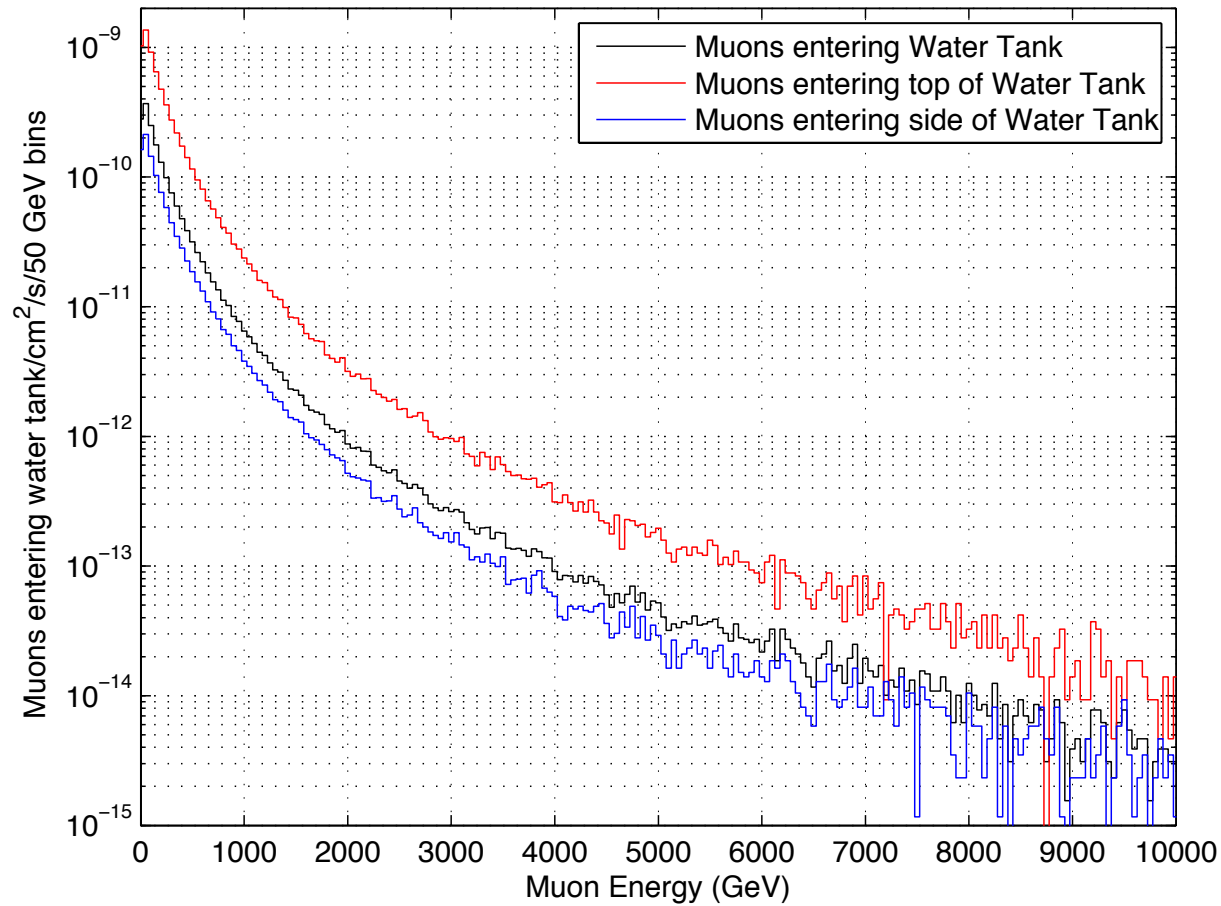


LZ Update

Monica Pangilinan
DWG Meeting
November 15, 2012

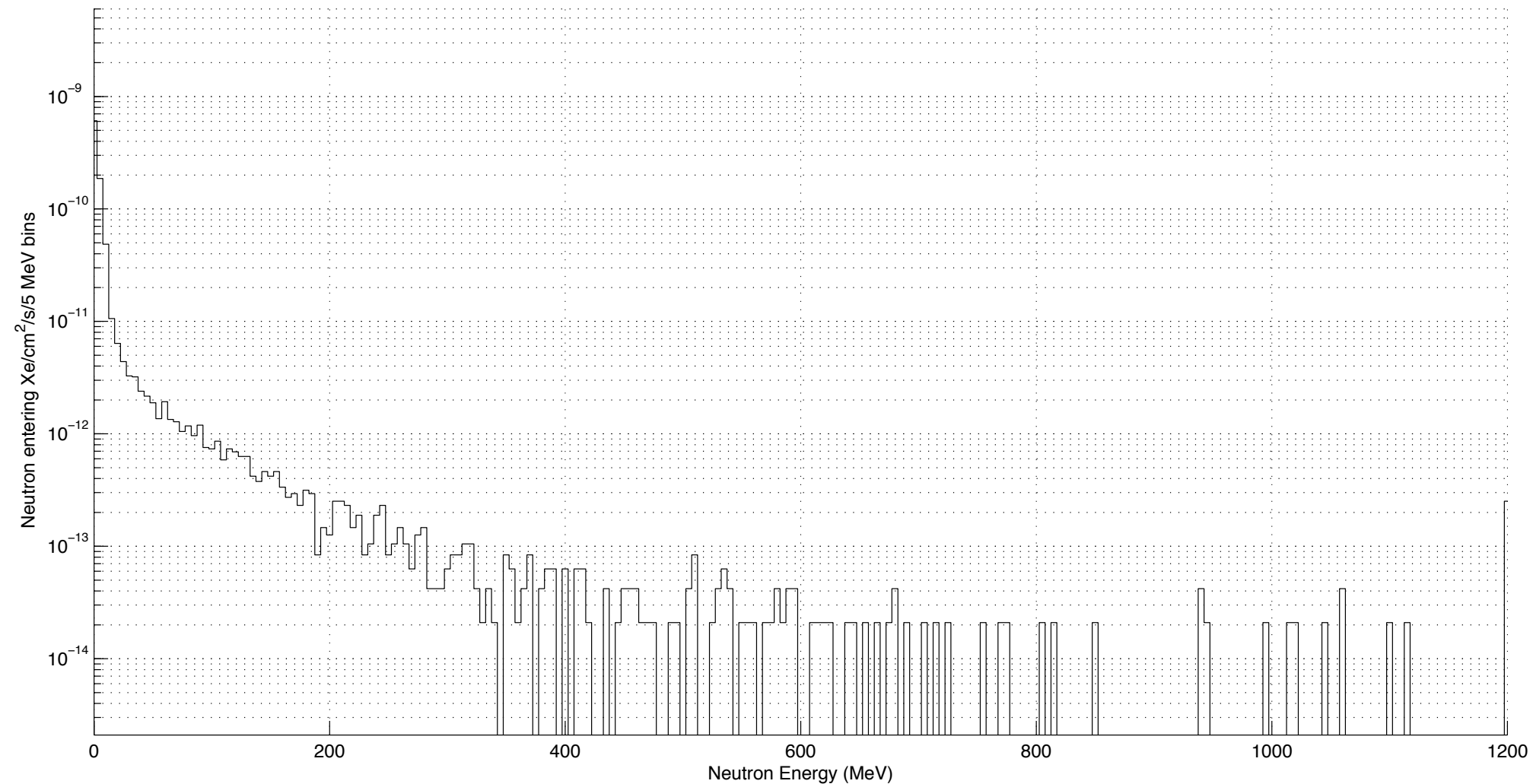
- 6 years of livetime analyzed so far (last update at 5.5 years)
- energy cuts on particles > 100 keV
- NR > 5 keVnr

Particles Entering Water Tank



	Flux entering Tank	Flux entering Top of Tank
Muon	$1.76 \times 10^{-5} \text{ mu/m}^2/\text{s}$	$6.46 \times 10^{-5} \text{ mu/m}^2/\text{s}$
Neutron	$1.68 \times 10^{-6} \text{ n/m}^2/\text{s}$	$2.69 \times 10^{-6} \text{ n/cm}^2/\text{s}$

Neutrons Entering Xenon Tank



	Flux entering Tank	1000 day live time
Neutrons entering Xe	$9.0 \times 10^{-6} \text{ n/m}^2/\text{s}$	-
NR/s	1.2×10^{-4}	~ 10000
Single Scatter NR/s**	5.3×10^{-9} (still 1 event)	0.46

**No EM veto, fiducial cut, or muon veto applied

- continuing to analyze and run events...7 weeks to finish up which also includes regoing over events missed while pushing through the sets (2400/3000)
- still want to make the comparisons with Angie