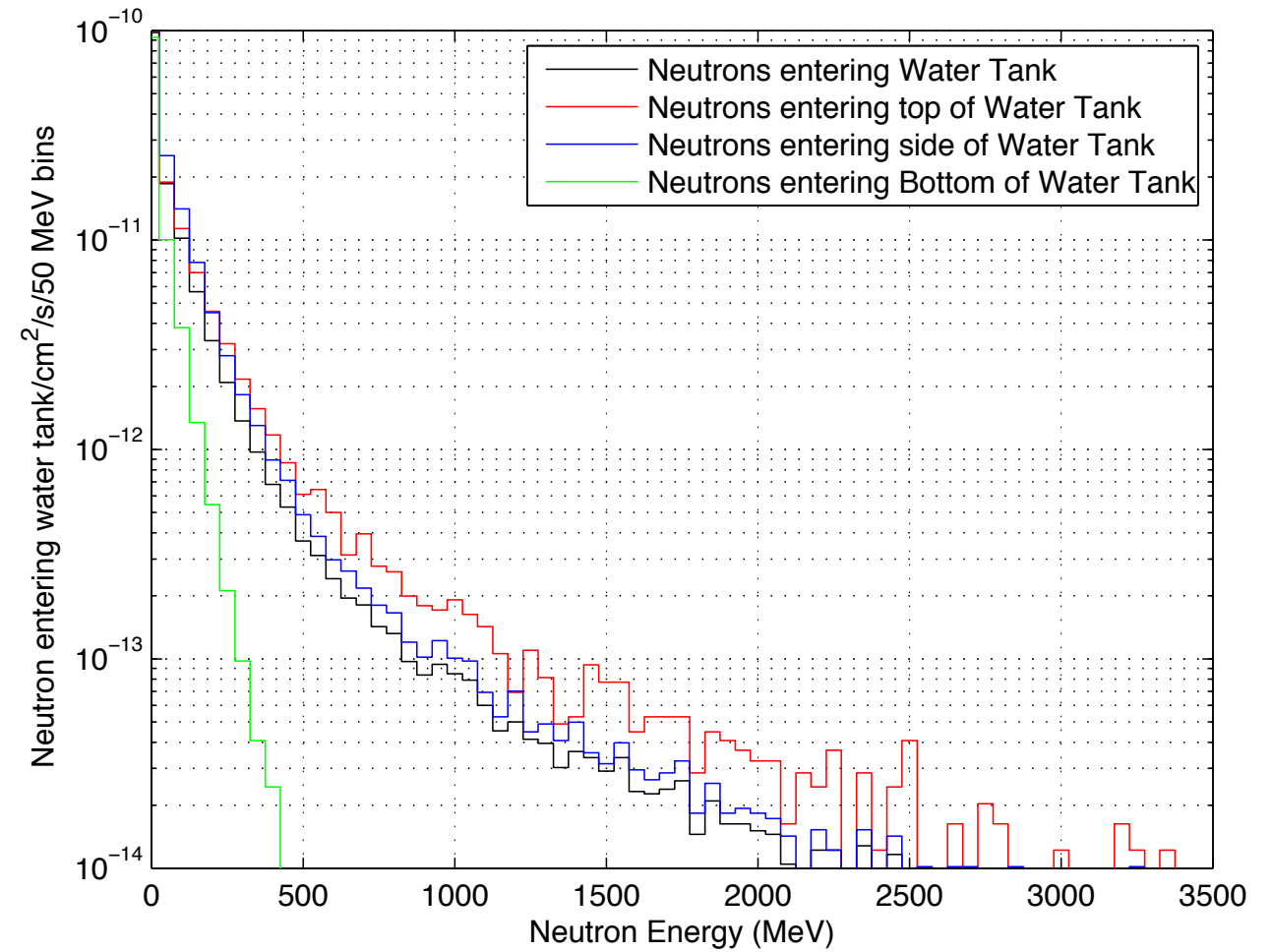
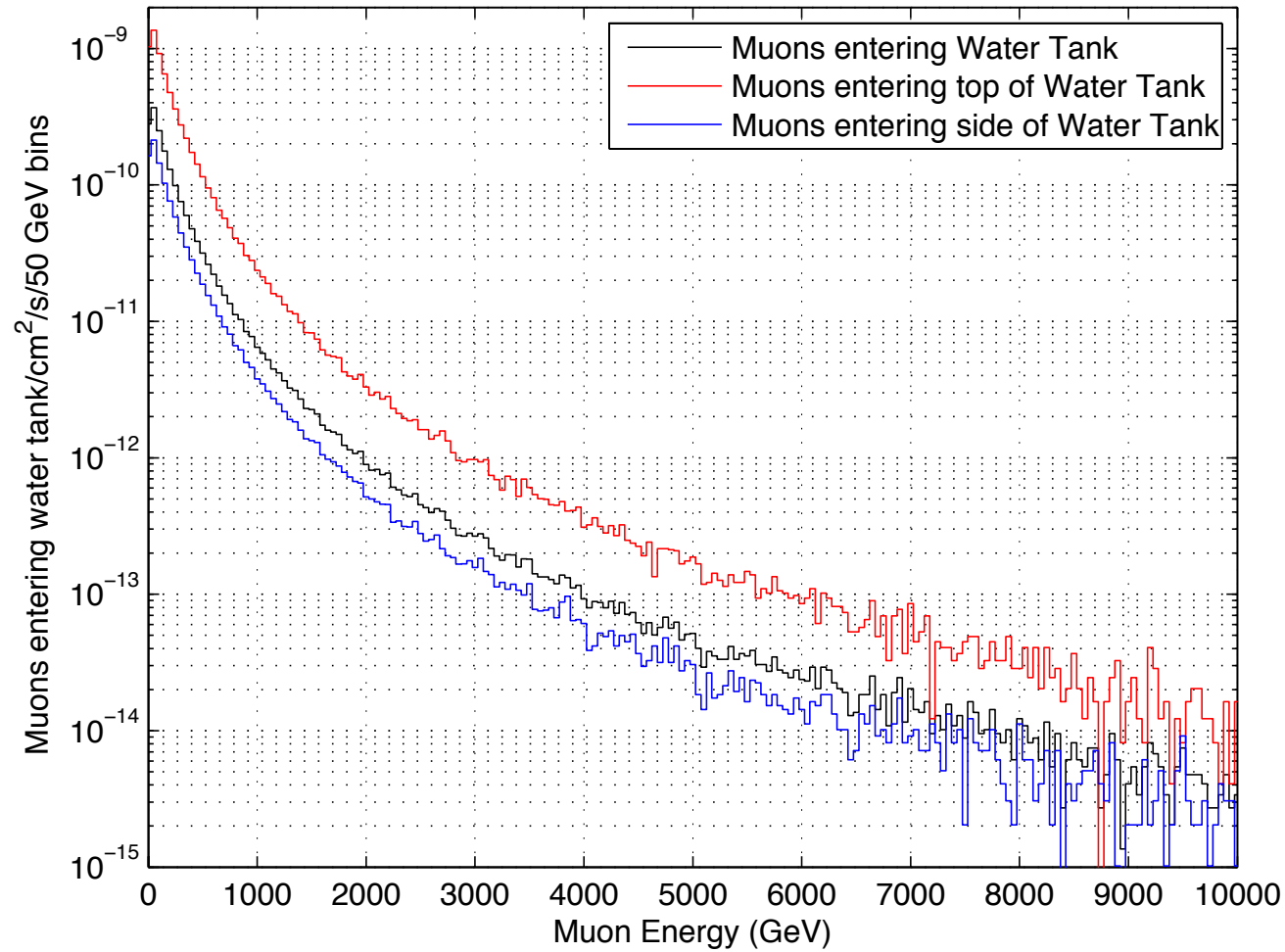


LZ Update

Monica Pangilinan
DWG Meeting
December 13, 2012

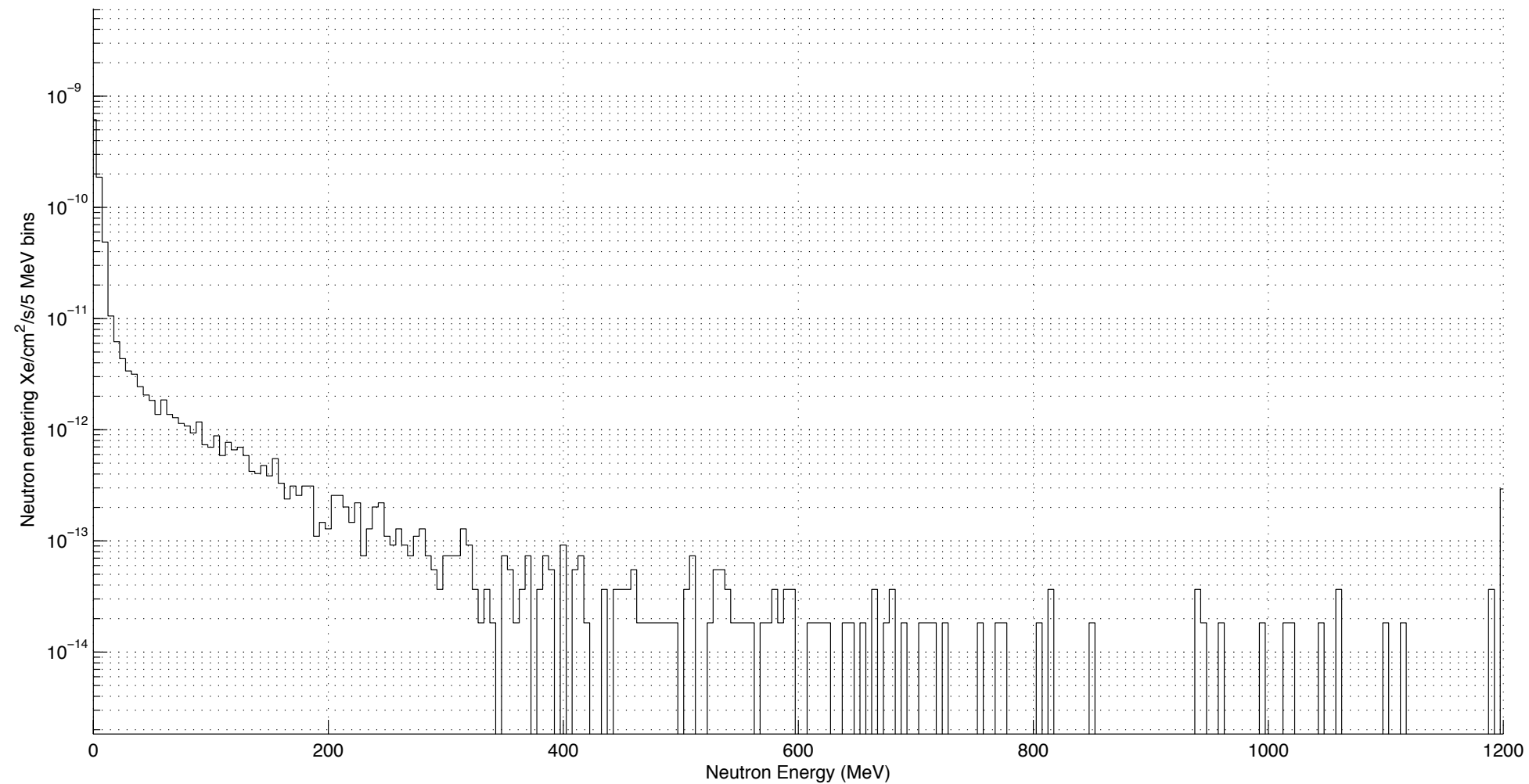
- 6.9 years of livetime analyzed so far (last update at 5 years)
- energy cuts on particles > 100 keV
- NR > 5 keVnr

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	$9.1 \times 10^{-6} \text{ n/m}^2/\text{s}$	-
NR/s	1.2×10^{-4}	~ 10000
Single Scatter NR/s**	1.4×10^{-8} (3 events)	1.2

**No upper NR cut (25 keV_{nr}), EM veto, fiducial cut, or muon veto applied

- continuing to analyze and run events...finished up to 3100 but need to redo over events missed
- still want to make the comparisons with Angie