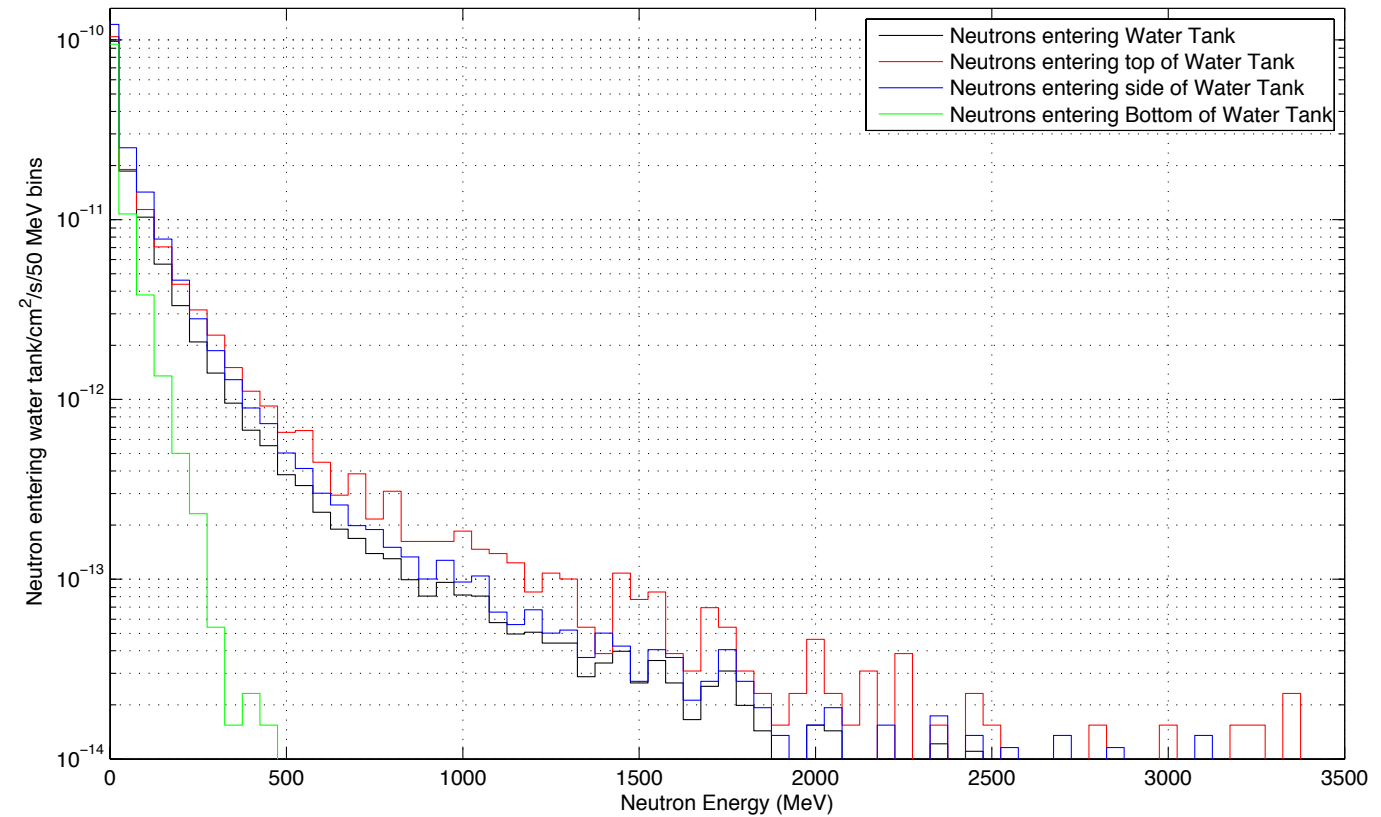
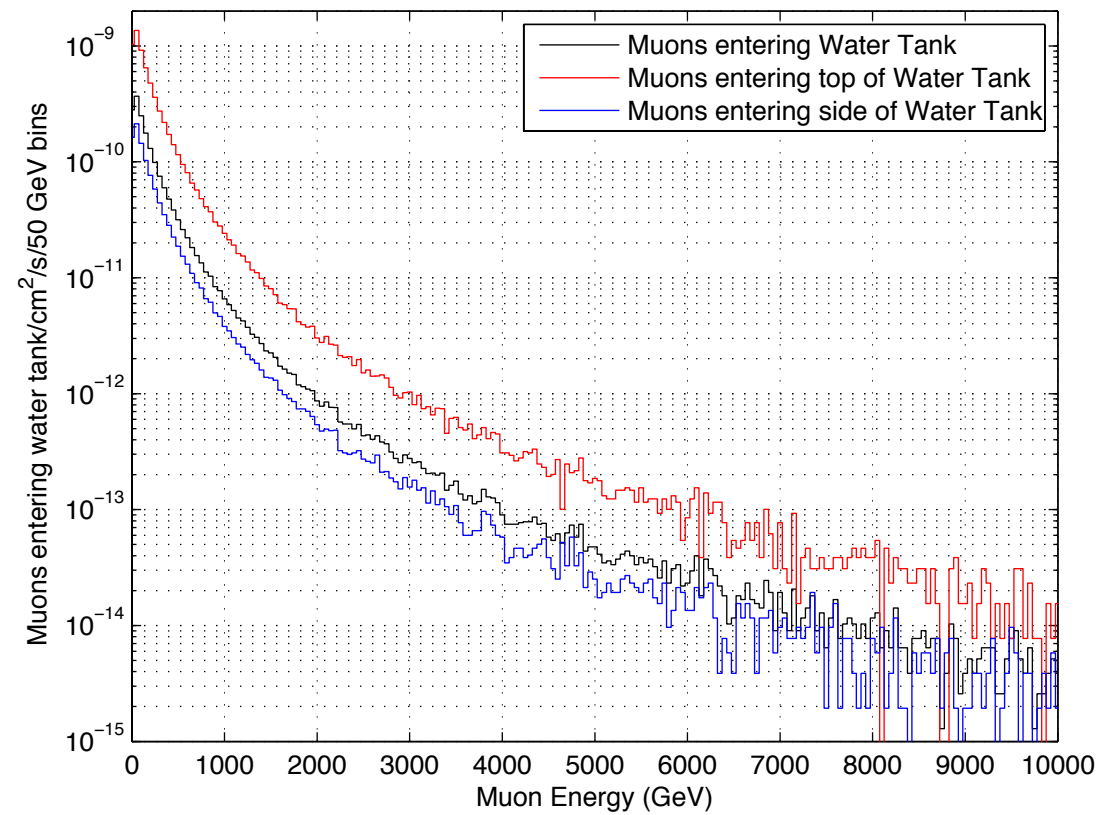


LZ Update

Monica Pangilinan
DWG Meeting
October 4, 2012

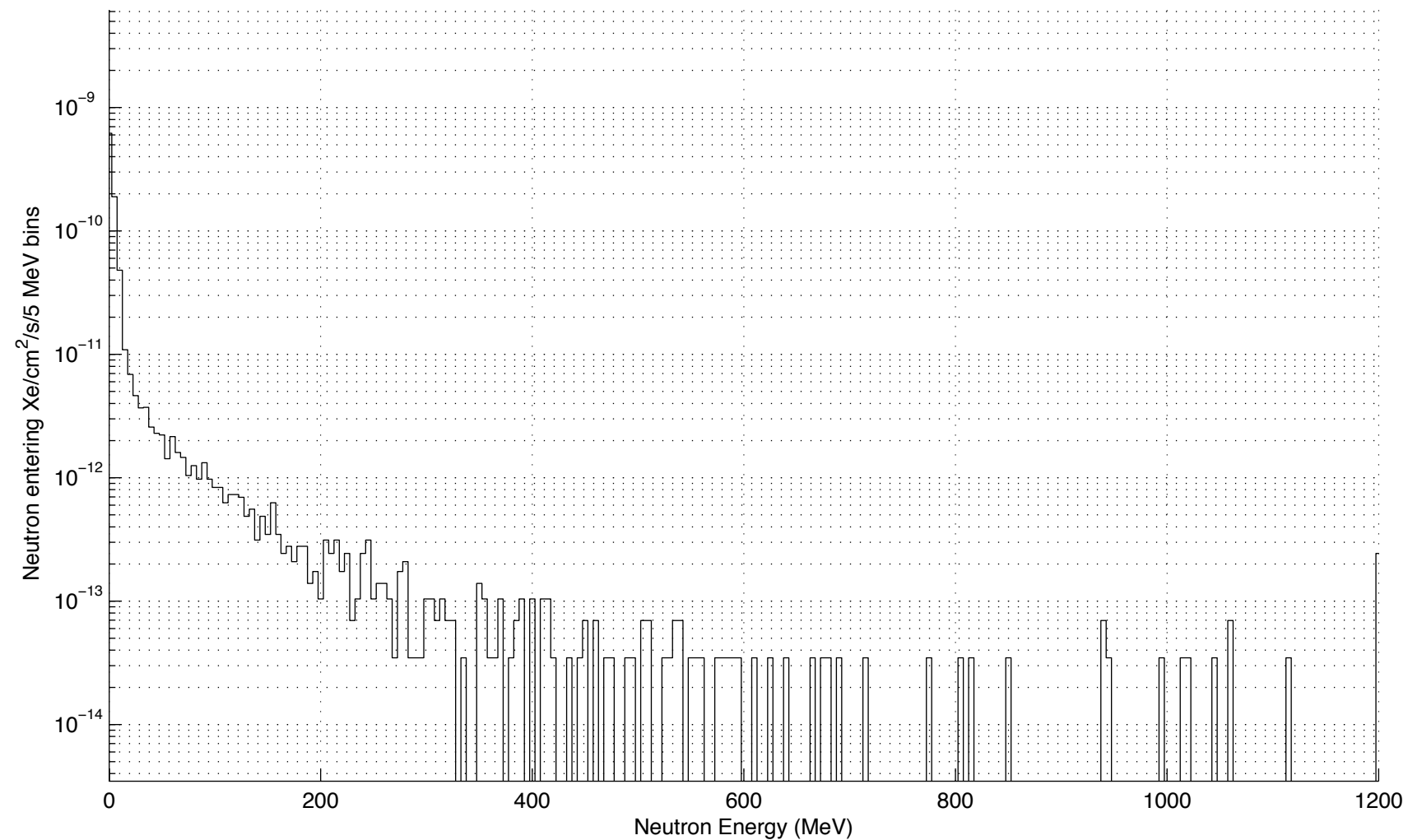
- 3.6 years of livetime analyzed so far (last update at 3 years)
- energy cuts on particles > 100 keV
- $NR > 5$ keVnr
- continuing to analyze and run events...8 weeks to finish up

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	$1.69 \times 10^{-6} \text{ n/m}^2/\text{s}$	$2.72 \times 10^{-6} \text{ n/cm}^2/\text{s}$

Neutrons Entering Xenon Tank



	Flux entering Tank	1000 day live time
Neutrons entering Xe	$9.2 \times 10^{-6} \text{ n/m}^2/\text{s}$	-
NR/s	1.2×10^{-4}	~10000
Single Scatter NR/s**	8.7×10^{-9} (1 event)	0.75

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