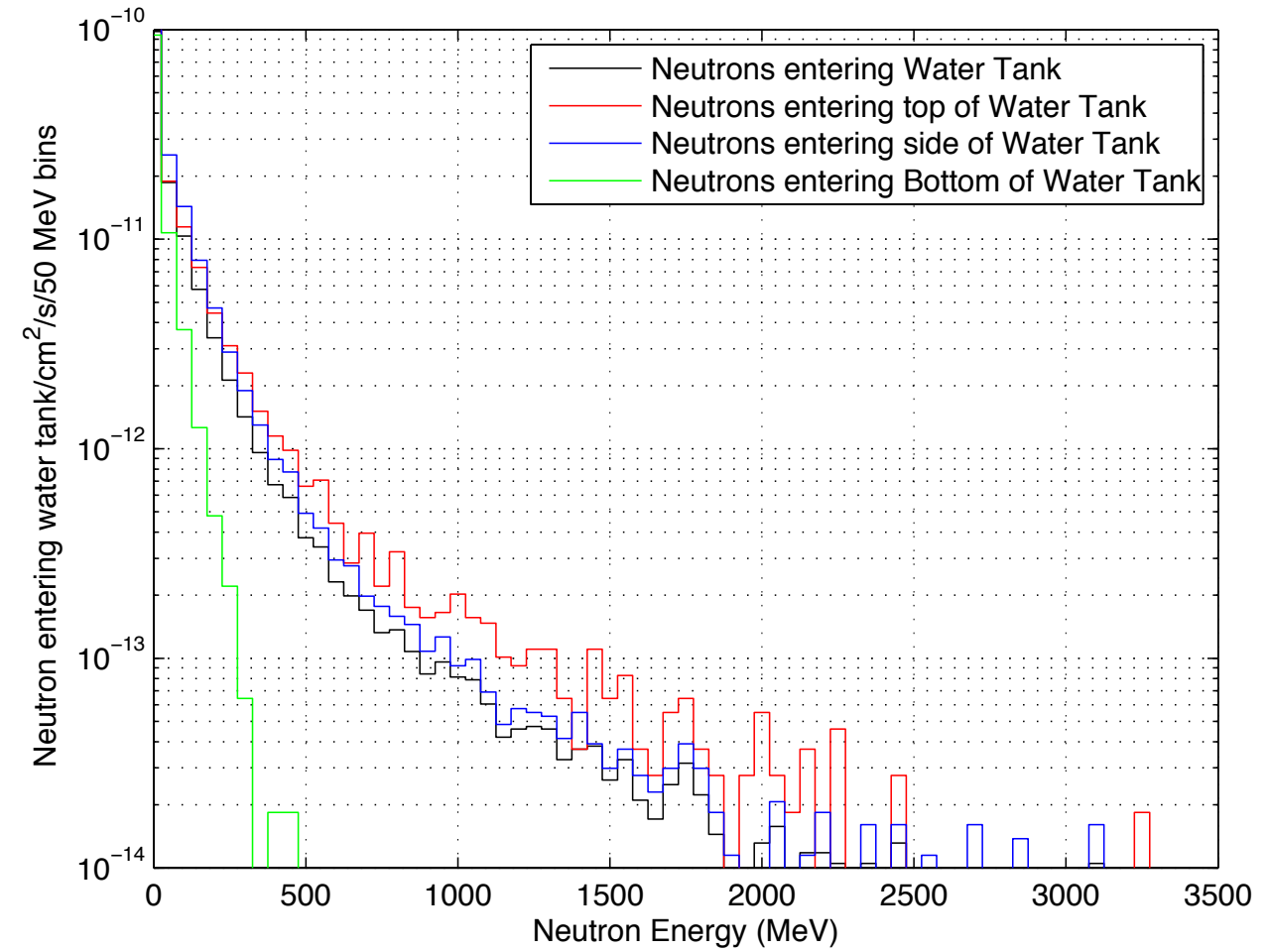
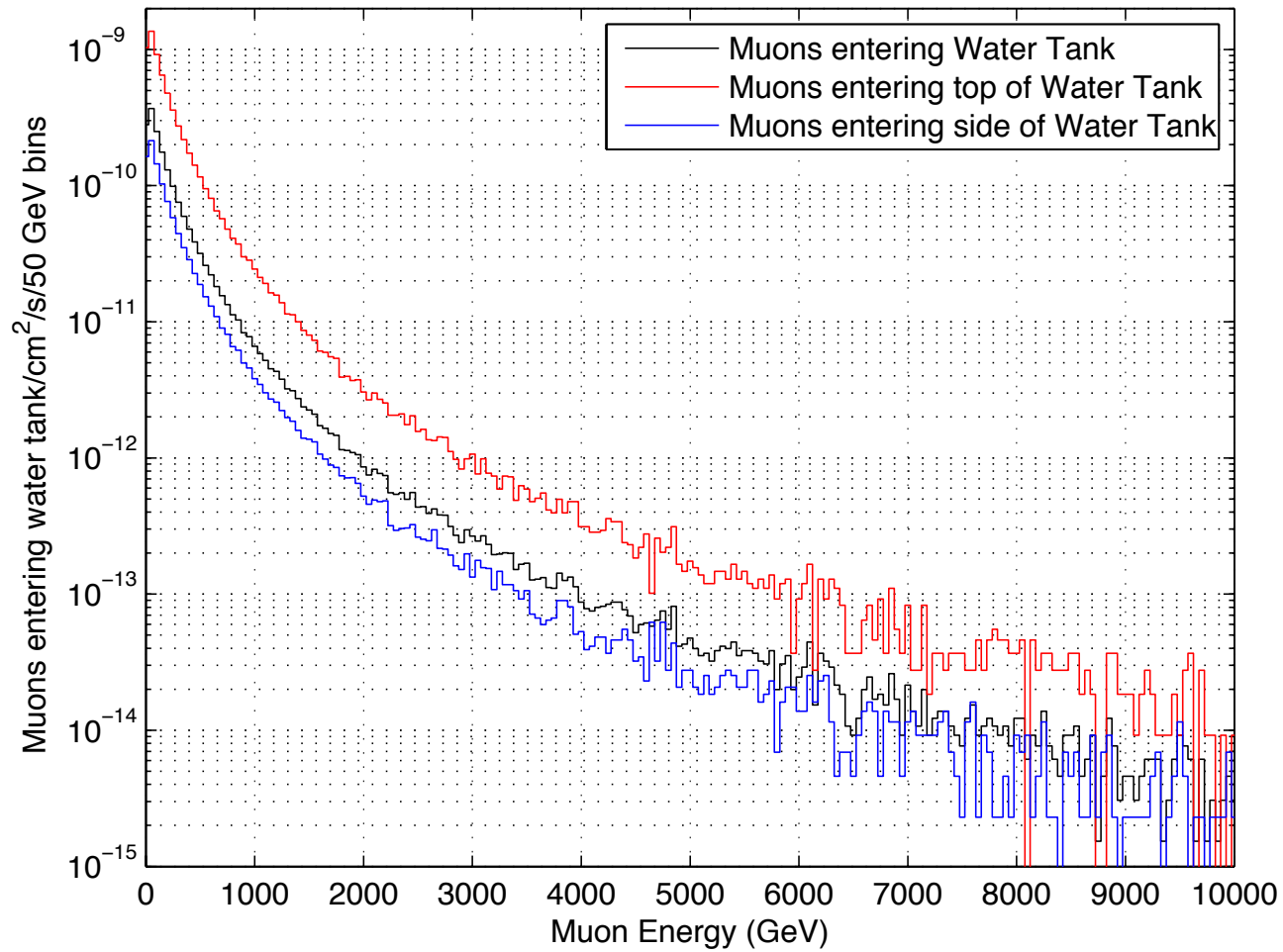


LZ Update

Monica Pangilinan
DWG Meeting

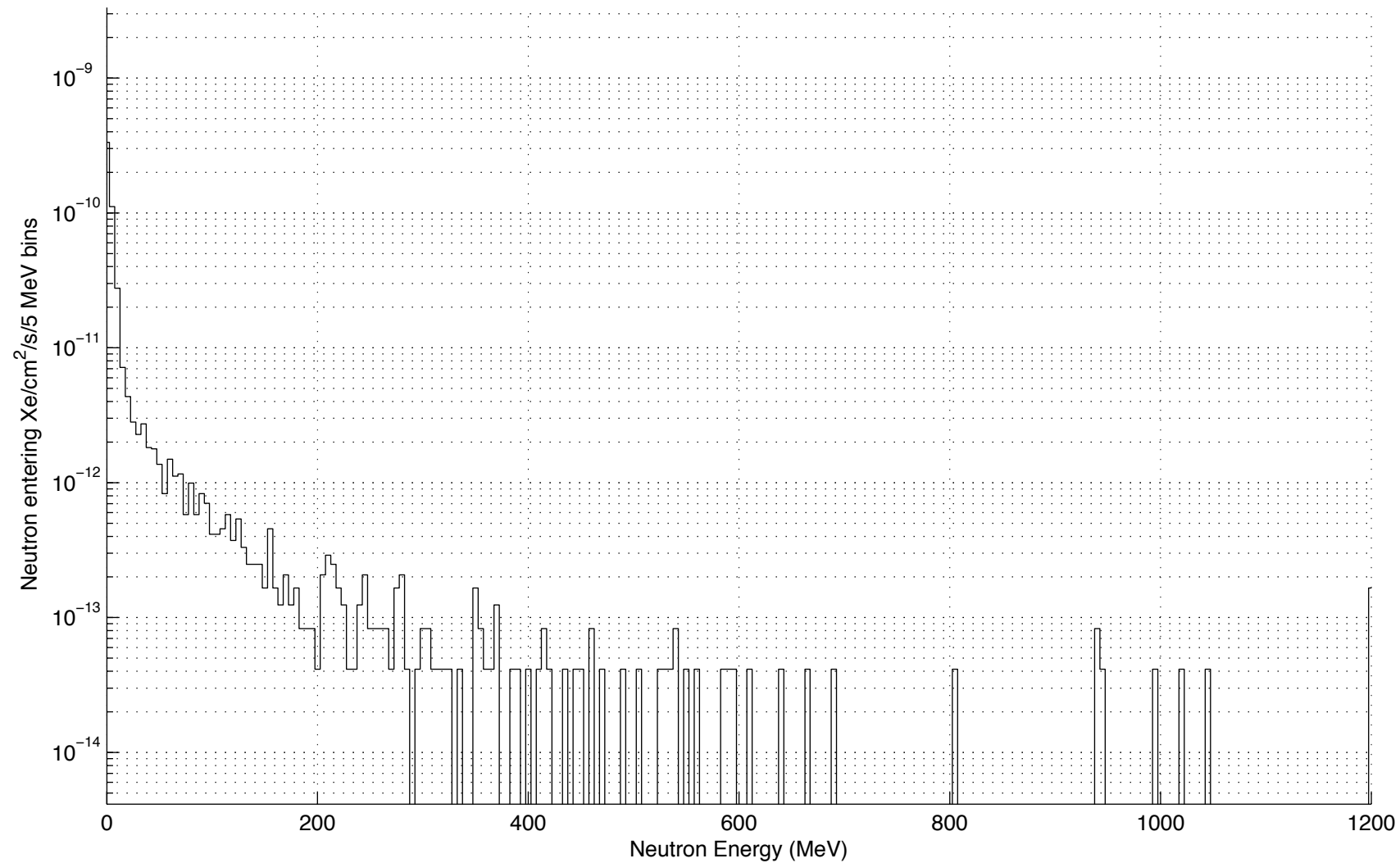
- had to reanalyze data since noticed a bug in the output that was being saved
- 3 years of livetime analyzed so far
- energy cuts on particles > 100 keV
- $NR > 5$ keVnr

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

Neutrons Entering Xenon Tank



	Flux entering Tank	1000 day live time
Neutrons entering Xe	$9.4 \times 10^{-6} \text{ n/m}^2/\text{s}$	-
NR/s	1.2×10^{-4}	~ 10000
Single Scatter NR/s	$1.0 \times 10^{-8} (1 \text{ event})$	0.86

- analyzed ~3 years but simulated total of ~6 years
- need to simulate about 1.2 more to finish up files generated by Angie
- current set up will take 10 weeks
- looking at other clusters to run this