

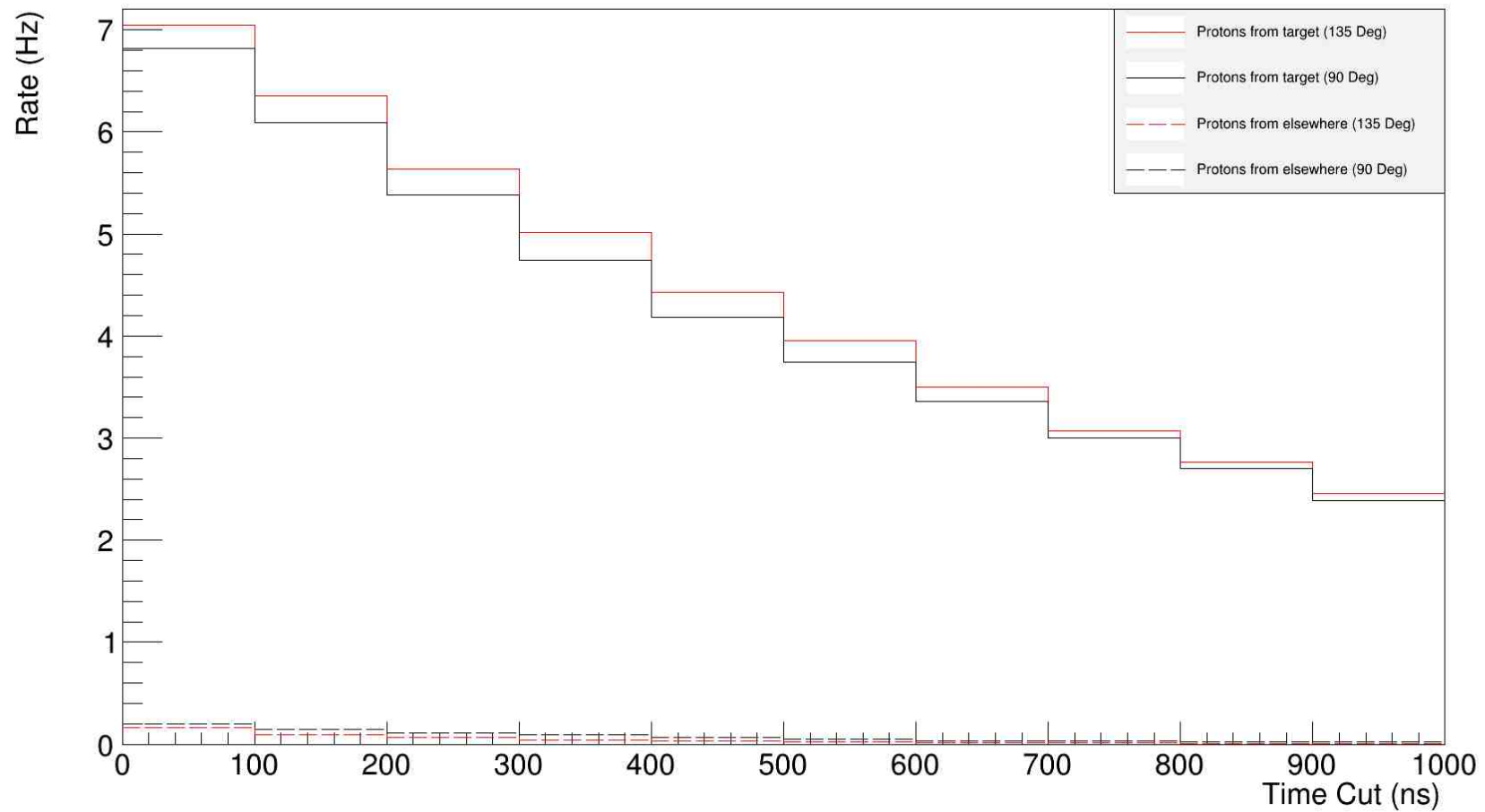
90 Deg vs. 135 Deg

Number of Muons Scattered Into
Downstream

Angle	Normalized to Pileup Protection and Beam Vetos	Normalized to Primary Stops in Target
135 deg	86.9571E-5	56.2194E-3
90 deg	3.7938E-5	02.4545E-3

Proton Rates

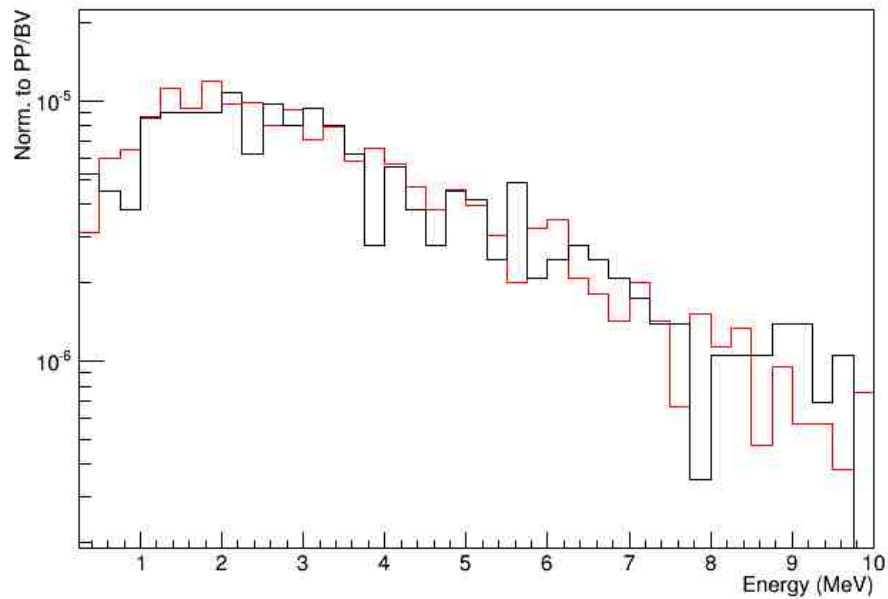
DS+US Thick Proton Entrance Rates (From Target)



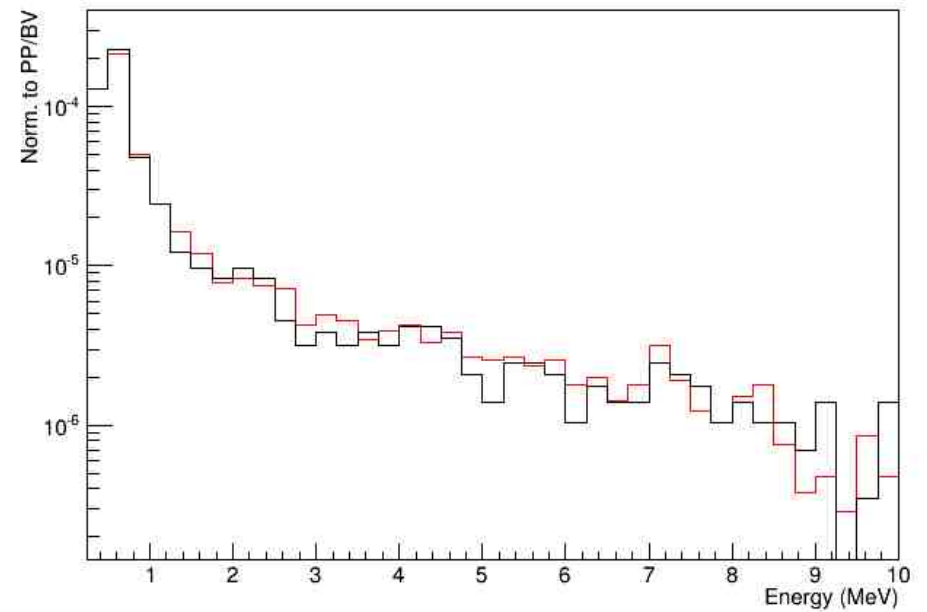
Energies

135 Deg
90 Deg

Spectrum in Downstream Detectors (Protons)



Spectrum in Downstream Detectors (Not Protons)

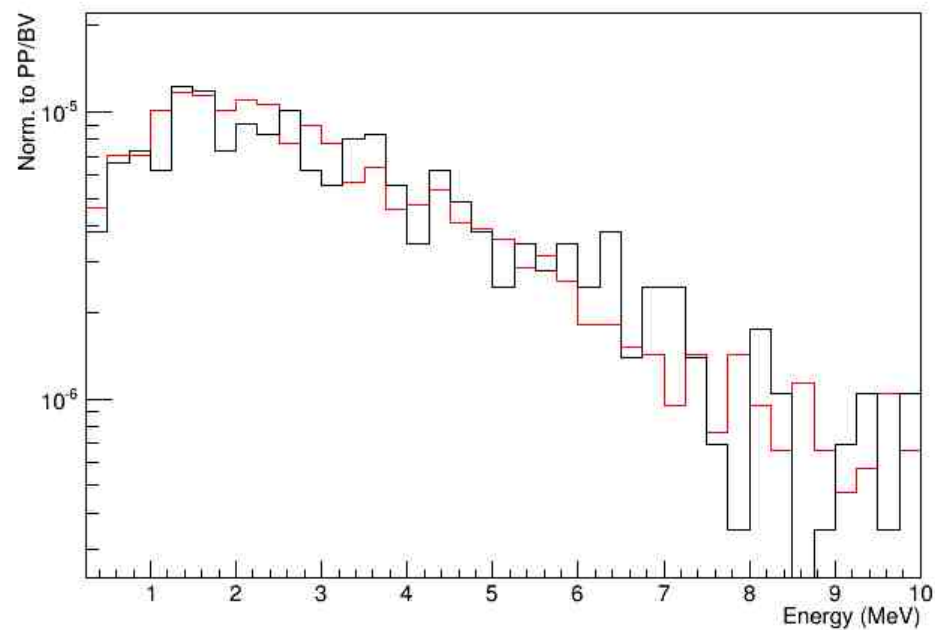


Energies

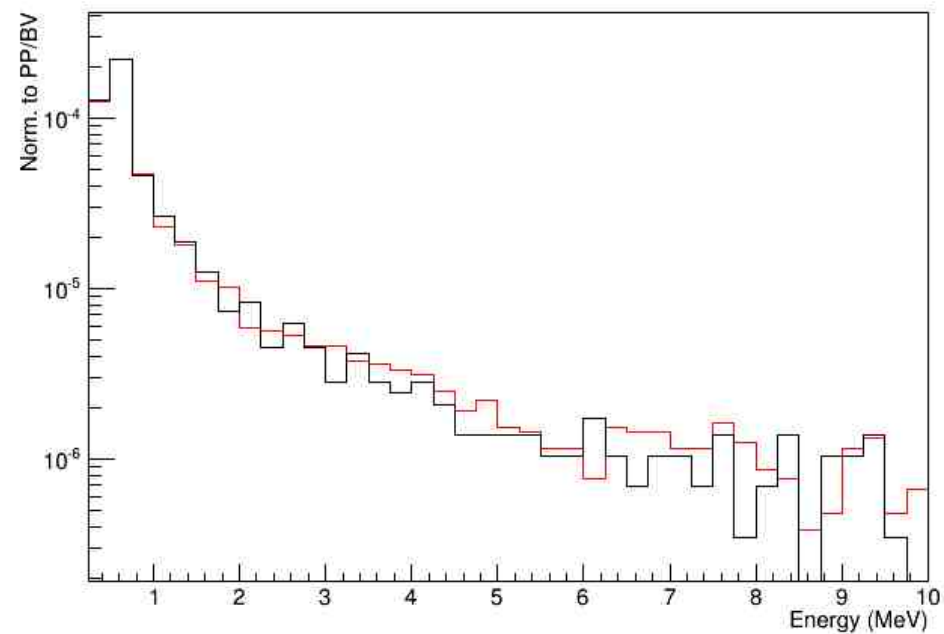
135 Deg

90 Deg

Spectrum in Upstream Detectors (Protons)

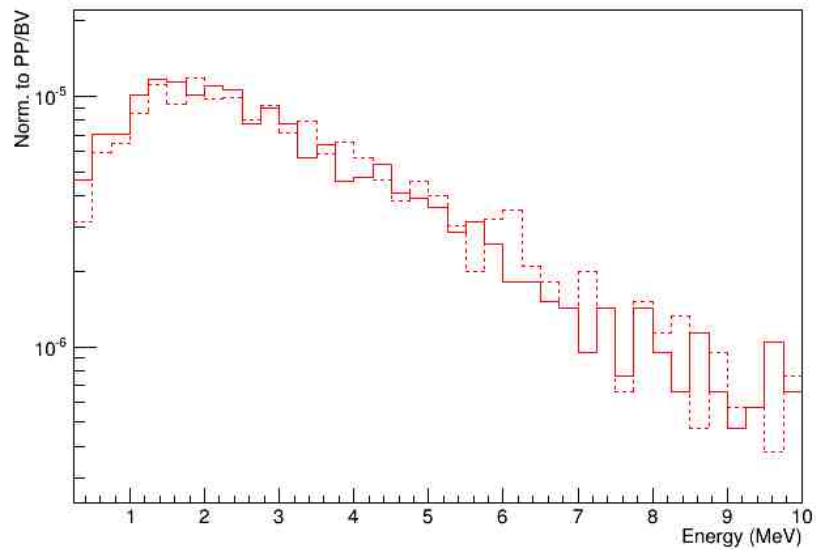


Spectrum in Upstream Detectors (Not Protons)



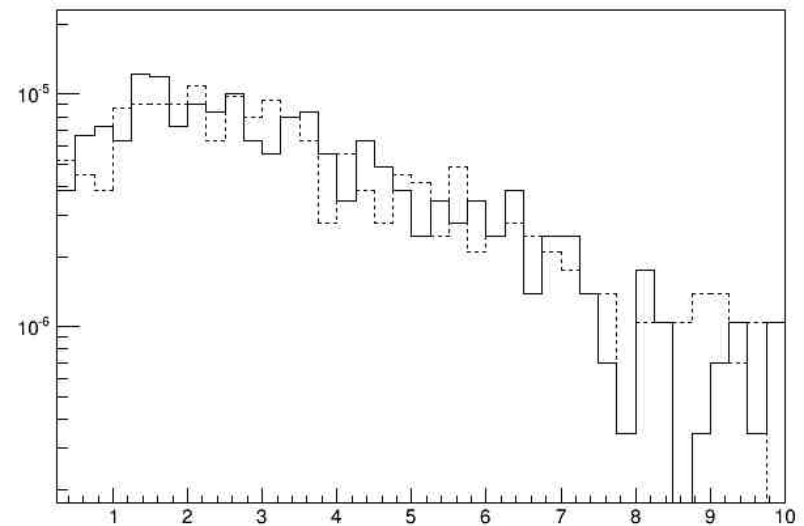
US/DS

Spectrum in Detectors (Protons)



Upstream (Beam Right):
Downstream (Beam Left):

Spectrum in Detectors (Protons)



Solid Line
Dotted Line

MuSc inside chamber?

- ~25% as many muons stop in MuSC as in Target (for beam momentum maximizing stops in thin target)
- If valid event := $!(\text{muSCA} \mid \text{muVeto} \mid \text{ScL} \mid \text{ScR}) \ \& \ \text{muSc}$
 - 15% primary stops in target per valid event when beam counter outside chamber
 - 75% primary stops in target per valid event when beam counter inside chamber

