Simulation Update

- Partially complete optical processes. Create Cerenkov but don't collect yet.
- Added Aluminium window 8 mil thick.



3 MeV

Detector Response



5 MeV

Detector Response



8 MeV

Detector Response



Analysis Update

- Determined energy resolution for each target. Pretty consistent.
- Look at pedestal subtractions as source of detector asymmetries and noise.
- E = Sum of samples 50 98 of FADC for each detector minus pedestal
- Pedestal = Average of samples 40 50
- Pedestals are very consistent across targets.
- Can compare to: https://cebaf.jlab.org/elog/entry/1715814

Spectra for 1 um Au



Left: Mean = 5220 Sigma = 144 Resolution = 2.77 %

Right: Mean = 5415 ****Sigma = 255**** ****Resolution = 4.71 %****

Up: Mean = 5187 Sigma = 147 Resolution = 2.83 %

Down: Mean = 5472 Sigma = 161 Resolution = 2.95 %

Pedestals for 1 um Au

