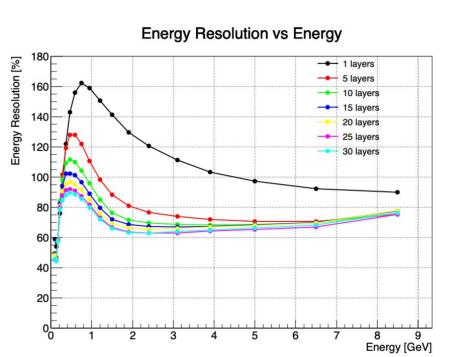
Investigating nHcal Energy Resolution

Nicholas Jindal

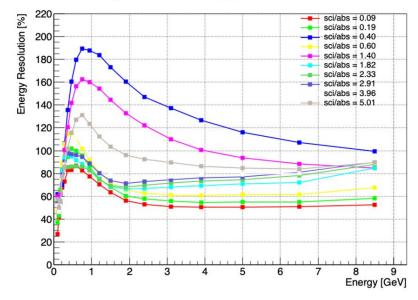
Setup

- Npsim for neutrons using a variety of geometries
- Varying number of layers and scintillator and absorber geometries
- Investigate energy resolution as a function of energy for both number of layers and scintillator to absorber ratio

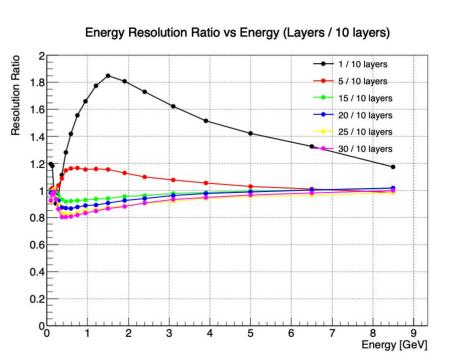
Energy Resolution Plots

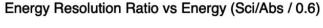


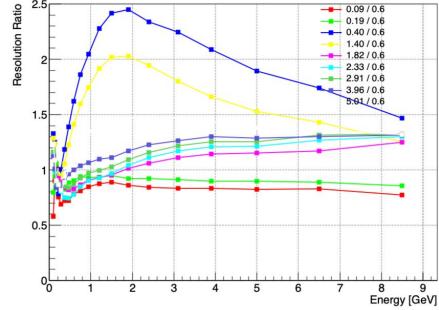




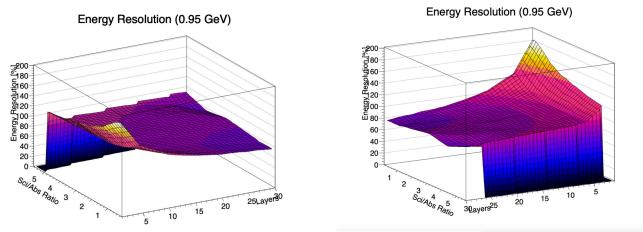
Ratios with Respect to Chosen Geometry







3D contour for 0.95 GeV Neutrons



Energy Resolution (0.95 GeV)

