

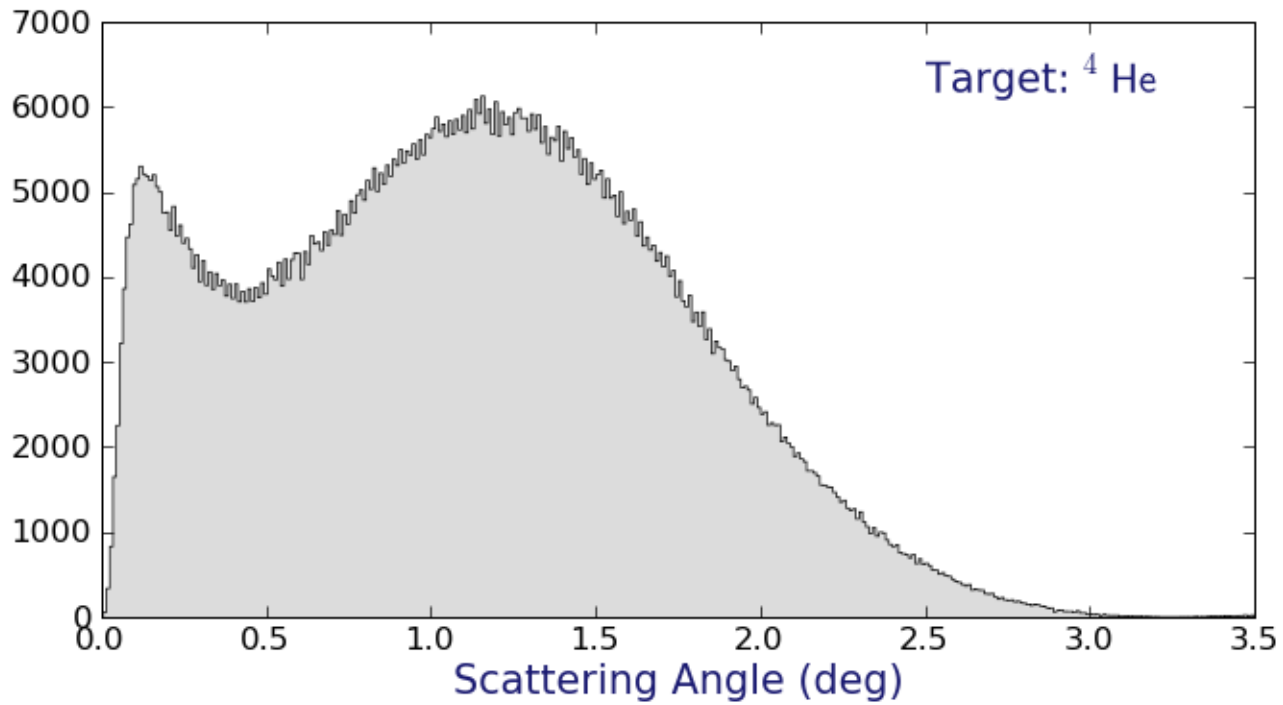
Photoproduction of the η meson

Pawel Ambrozewicz

NC A&T

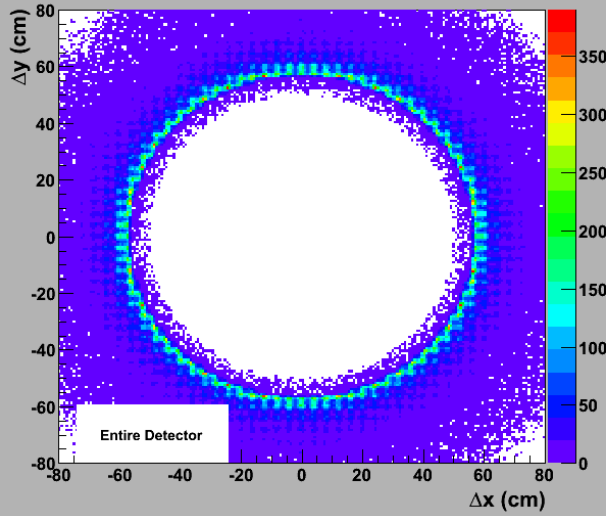
- Optimizing The Configuration
 - Helium Target
 - B Field On/Off
 - Angular Resolution Scans

Helium Target

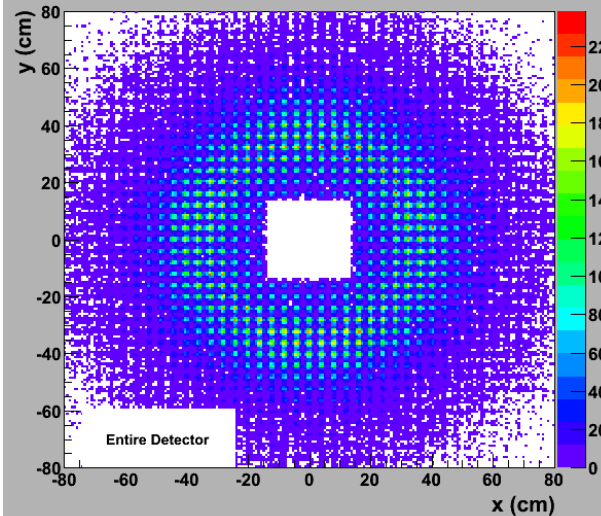


Data Selection – Magnetic Field On

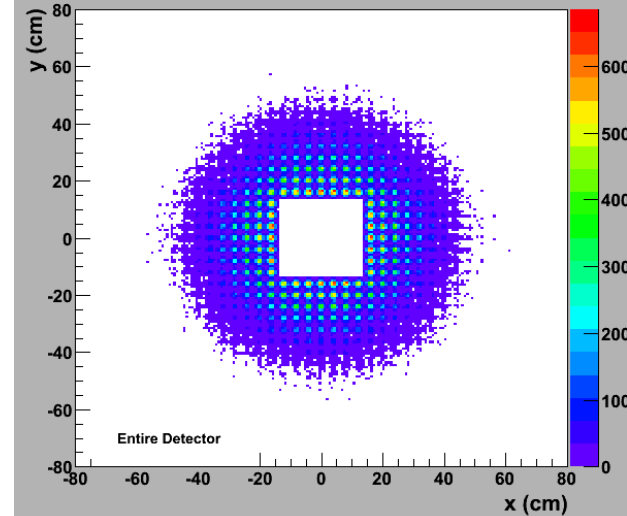
Cluster Separation



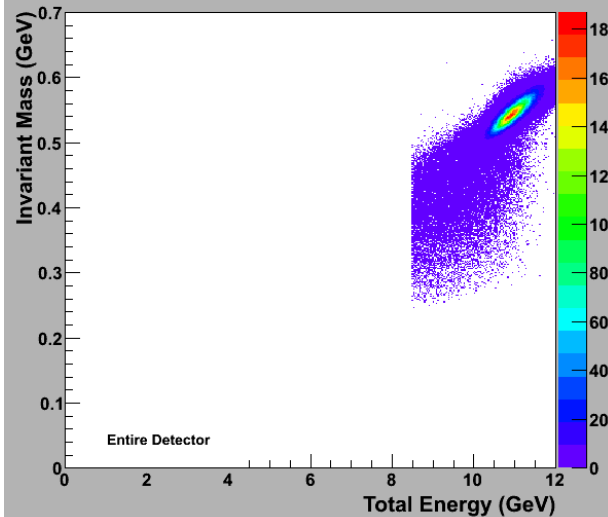
Lower Energy Cluster X vs. Y



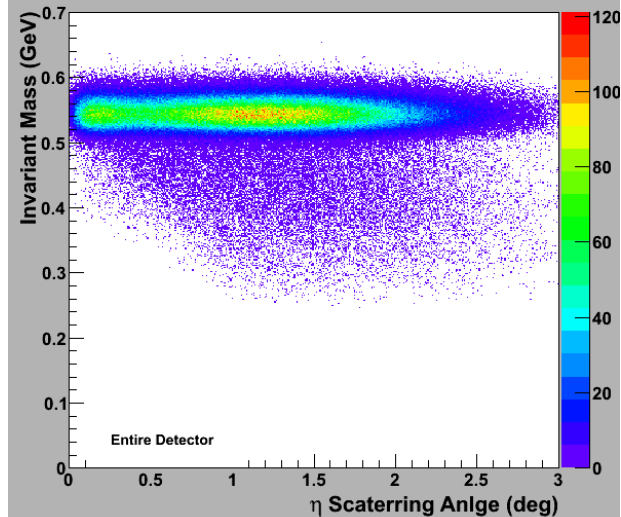
Higher Energy Cluster X vs. Y



Invariant Mass vs Energy

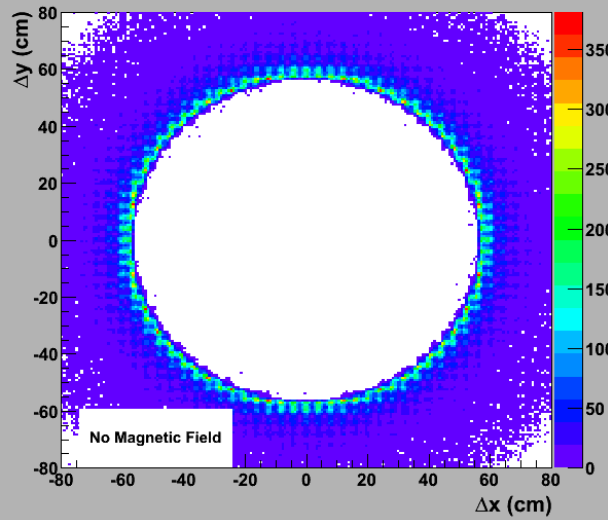


M_0 vs θ_η

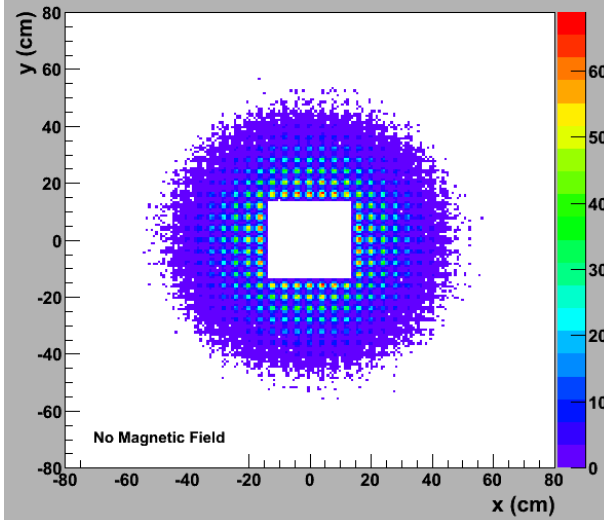


Data Selection – Magnetic Field Off

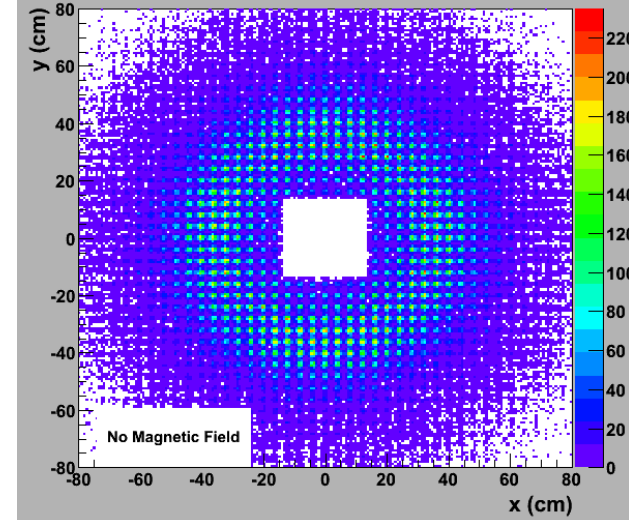
Cluster Separation



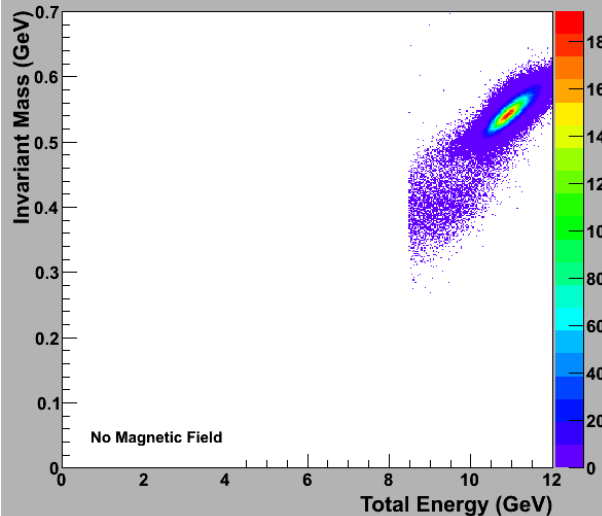
Higher Energy Cluster X vs. Y



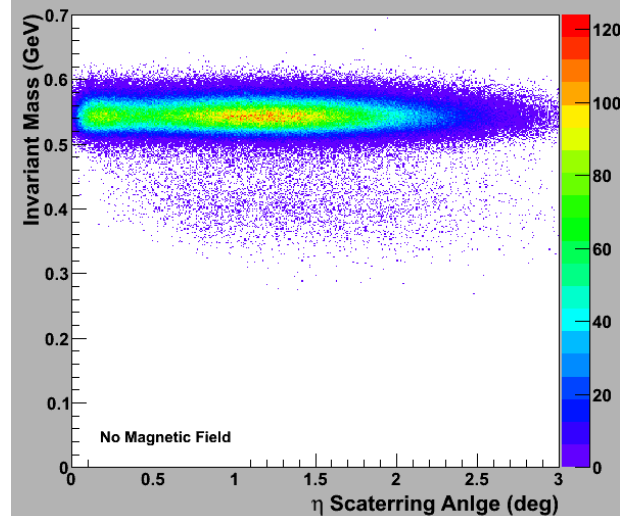
Lower Energy Cluster X vs. Y



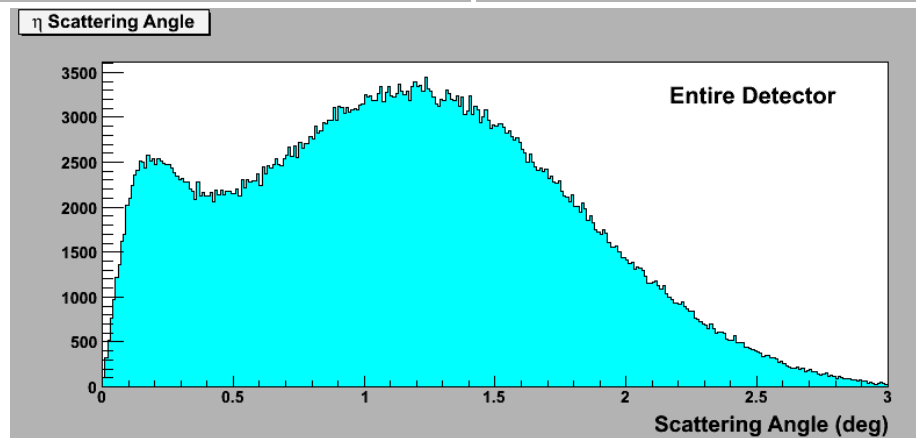
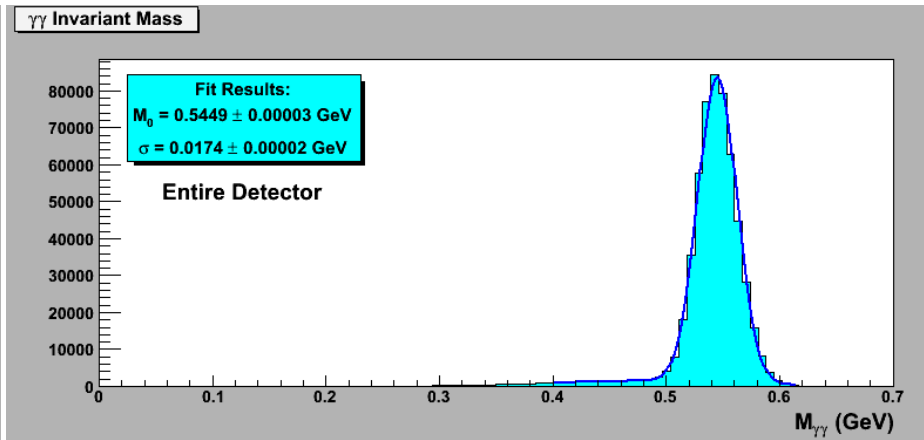
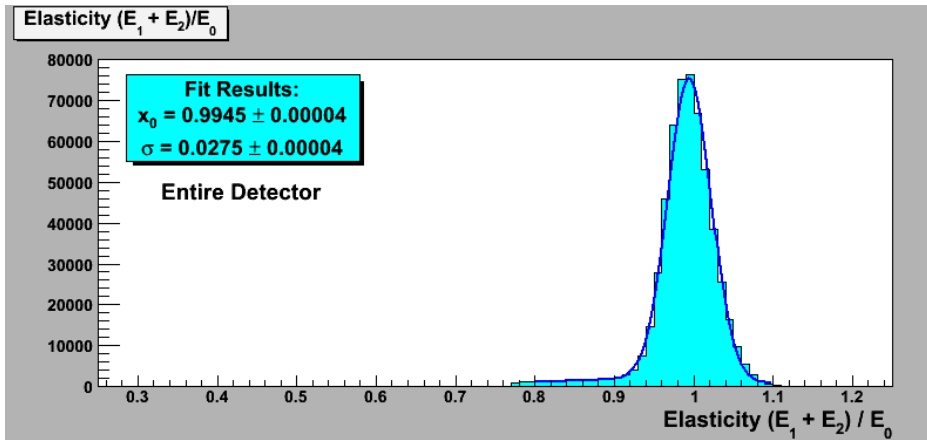
Invariant Mass vs Energy



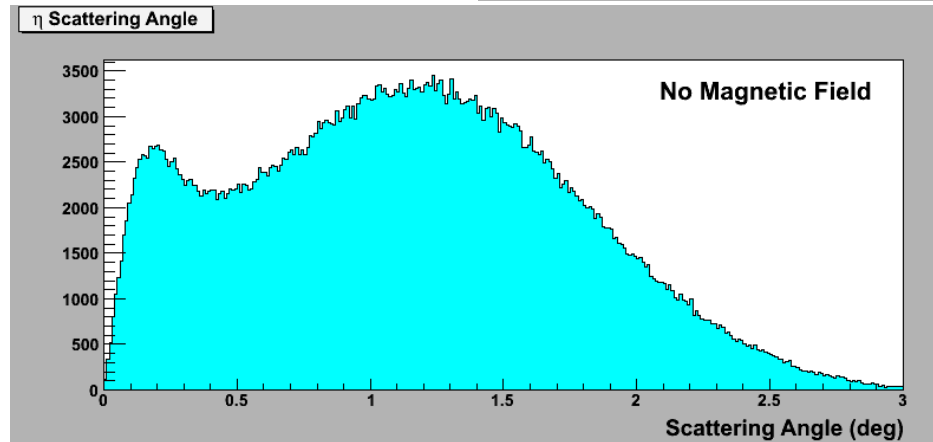
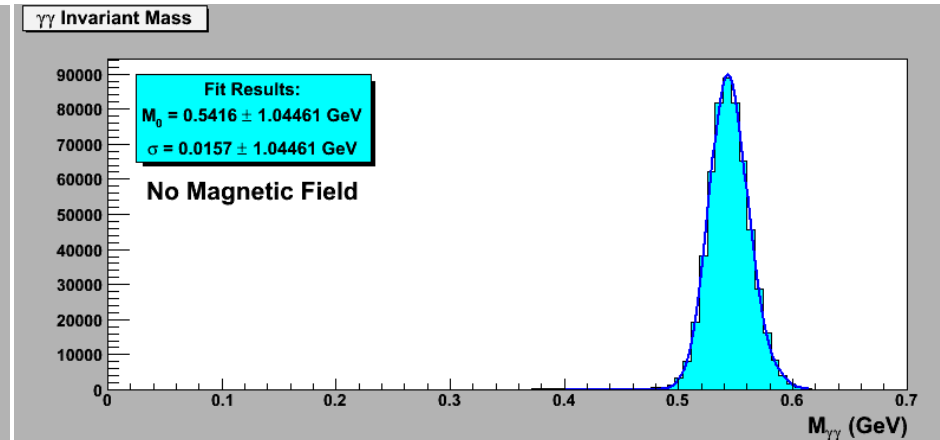
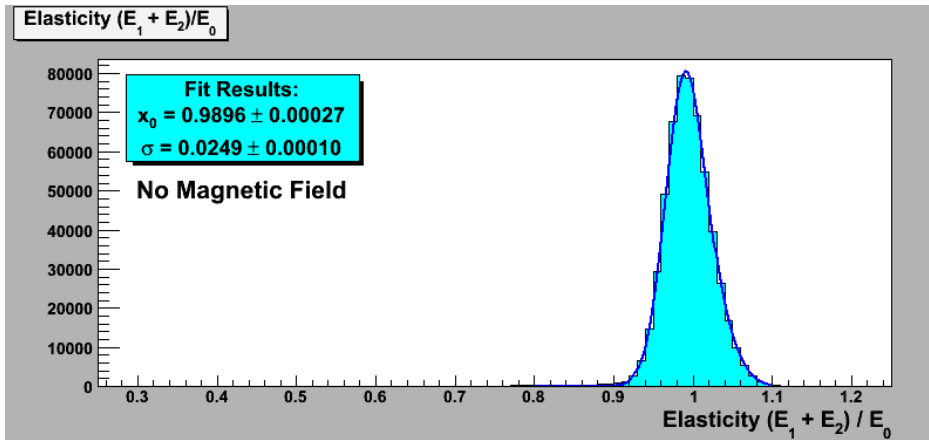
M_0 vs θ_η



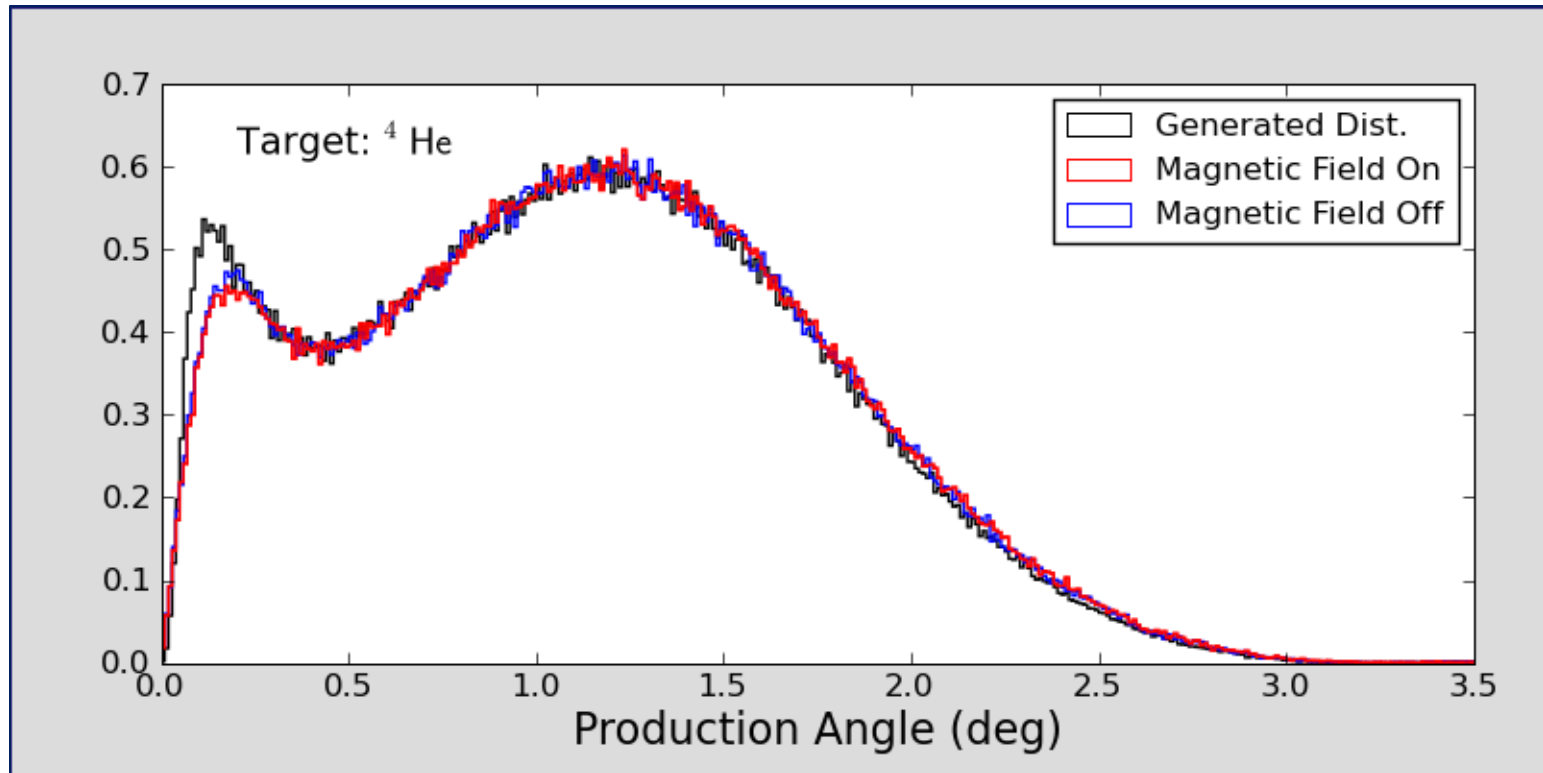
Fit Results – Magnetic Field On



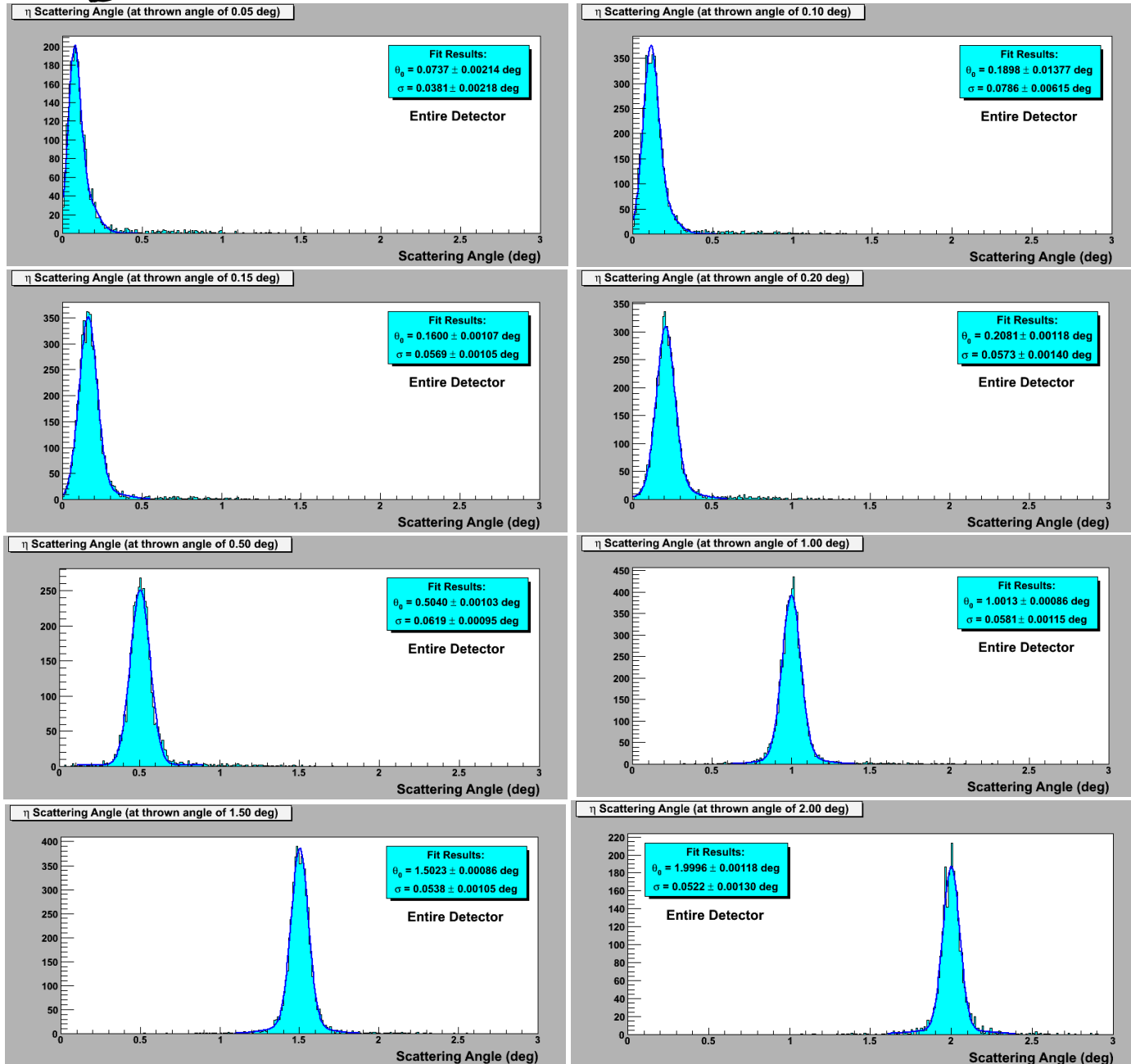
Fit Results – Magnetic Field Off



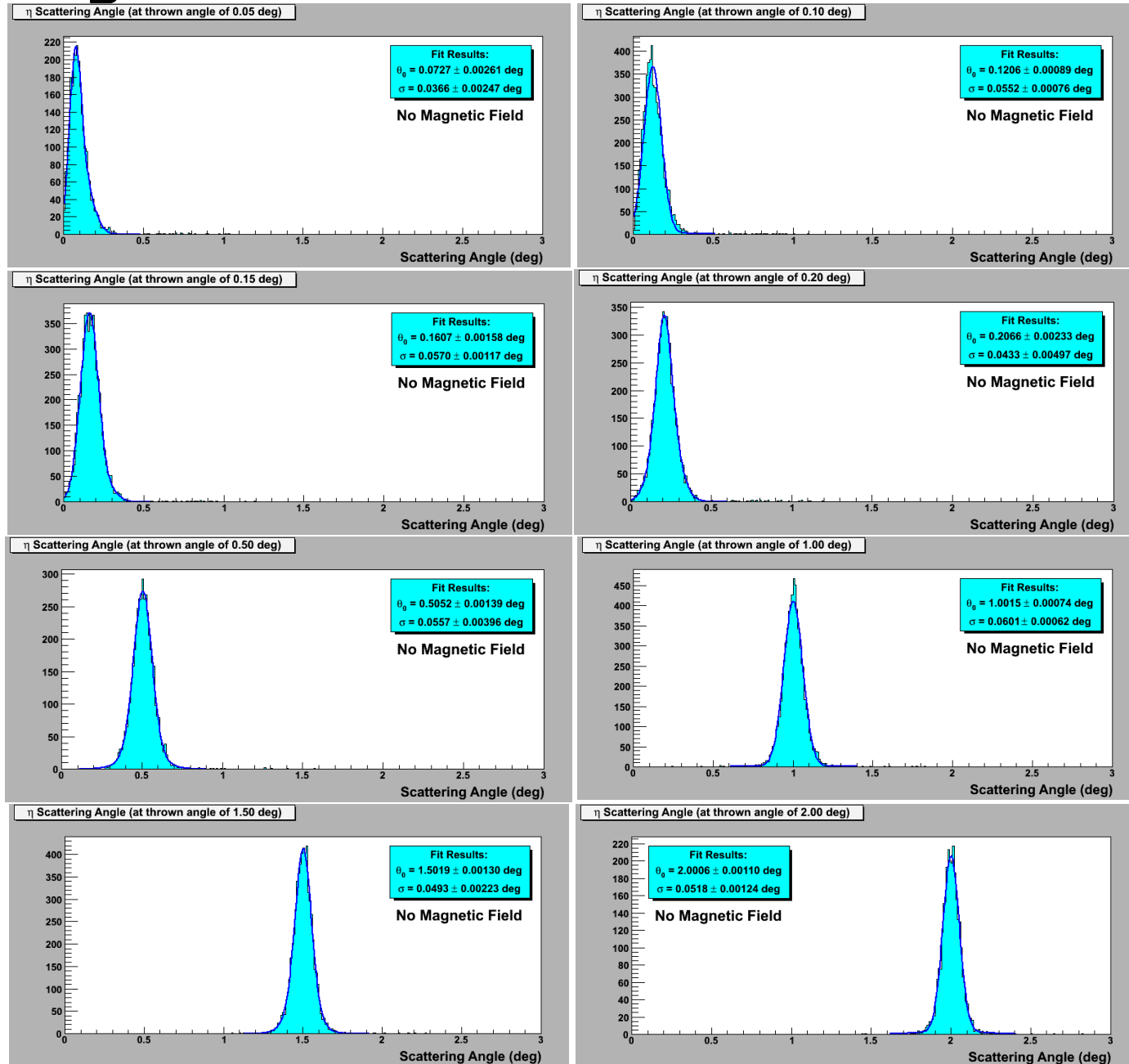
Yield Angular Distributions



Angular Resolution Scans – B On

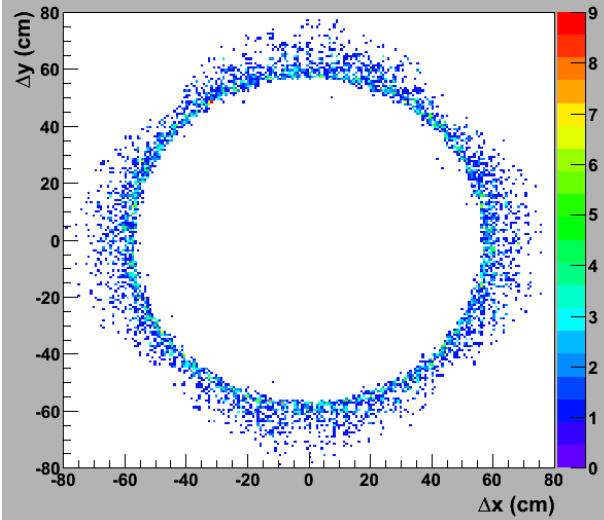


Angular Resolution Scans – B Off

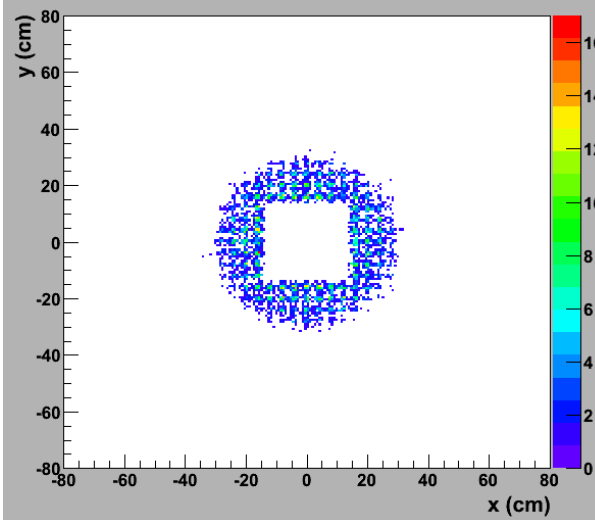


Data Selection – Angular Scan w/B On

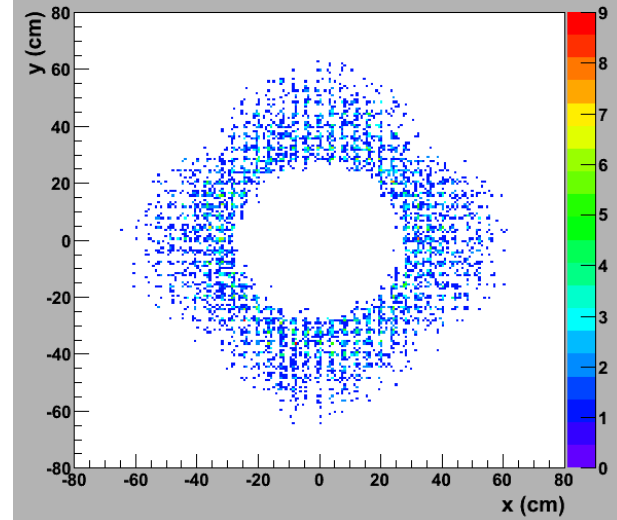
Cluster Separation



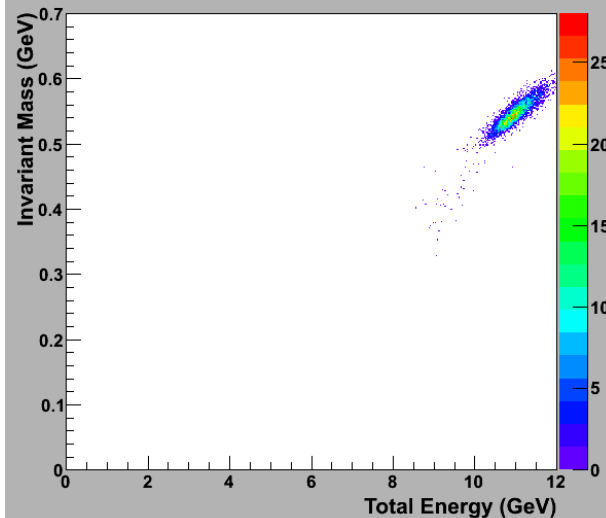
Higher Energy Cluster X vs. Y



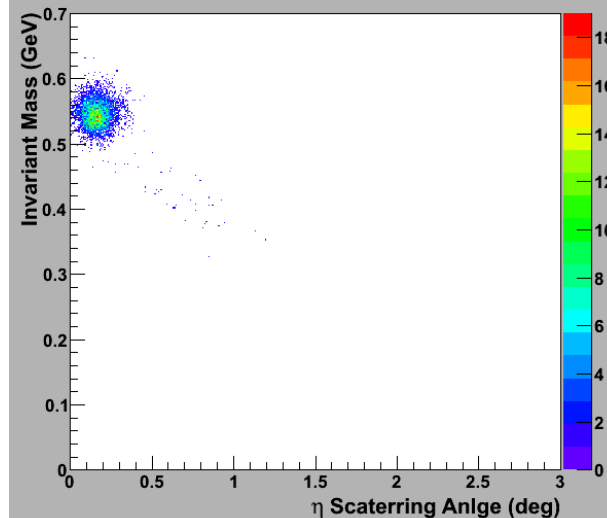
Lower Energy Cluster X vs. Y



Invariant Mass vs Energy



M_0 vs θ_η



Resolution Scan Results

