CPP Simulation Update

- General Simulation is running
- Implemented angular and energy cuts in event file
- Have not yet considerably altered detector geometry





Angular cuts – remove low and high polar angle tracks:





Energy Cuts

Sum\$(E)

Event input energy with no filtering

Results – no angular or energy cuts

Results – no angular cuts, 5 GeV minimum energy

Summary of Background Rejection vs. Signal Efficiency Plots

No angular or energy cutoffs

0.8° to 4.61° limits, 5-6.3 GeV limits, No MWPCs

0.5

0.6

0.7

0.4

0.9

Signal efficiency

1

0.8

0.2 [□] 0

0.1

0.2

0.3

Future Work:

- Implement these cutoffs in the analysis, rather than in the input event files
- Start changing detector geometry to optimize efficiency