Geant4 simulation [Energy=5 GeV] [Energy=10 GeV] [Energy=20 GeV] [Energy=25 GeV] [Energy=50 GeV] . 350 . 2350 350 . 350 ∯350 . ⊒350 <E>=7979.2 RMS=376.8 <E>=16334.6 RMS=551.3 <E>=33262.0 RMS=830.7 <E>=41711.0 RMS=927.2 <E>=84181.5 RMS=1362.3 300 300 300 300 300 μ=33261.5 σ=827.0 $\mu = 7974.3 \sigma = 377.8$ $\mu = 16327.0 \sigma = 548.1$ μ =41706.6 σ =938.8 μ =84147.9 σ =1310.7 250 250 250 250 250 200 200 200 200 200 150 150 150 150 150 100 100 100 100 100 50 50 50 50 50 25000 8000 15000 20000 35000 40000 Hit count Hit count Hit count Hit count Hit count [Energy=75 GeV] [Energy=100 GeV] [Energy=125 GeV] [Energy=150 GeV] [Energy=175 GeV] ± 350 . 350 ≟ ± 350 ± 350 ± 350 <E>=211813.3 RMS=2266.6 <E>=126723.9 RMS=1593.4 <E>=169208.9 RMS=1893.4 <E>=254314.6 RMS=2561.6 <E>=296865.1 RMS=2767.3 300 300 300 300 300 μ =169218.7 σ =1819.3 μ=211842.0 σ=2073.9 μ=254479.0 σ=2270.0 μ=296957.4 σ=2335.5 μ =126763.4 σ =1571.2 250 250 250 250 250 200 200 200 200 200 150 150 150 150 150 100 100 100 100 100 130 170 210 220 240 260 Hit count Hit count Hit count Hit count Hit count [Energy=200 GeV] [Energy=250 GeV] [Energy=300 GeV] [Energy=500 GeV] . ⊒350 ∰350 2350 2350 <E>=339653.4 RMS=3082.8 <E>=424845.6 RMS=3882.7 <E>=509974.8 RMS=4741.5 <E>=850023.1 RMS=7107.7 300 300 300 300 μ=425062.4 σ=3127.8 u=510285.2 σ=3532.1 $\mu = 339901.1 \sigma = 2668.1$ μ =851092.7 σ =4868.7 250 250 250 250 200 200 200 200 150 150 150 150 100 100 100 100 320 340 400 420 440 460 480 500 520 540 800 850 900

Hit count

Hit count

Hit count

Hit count