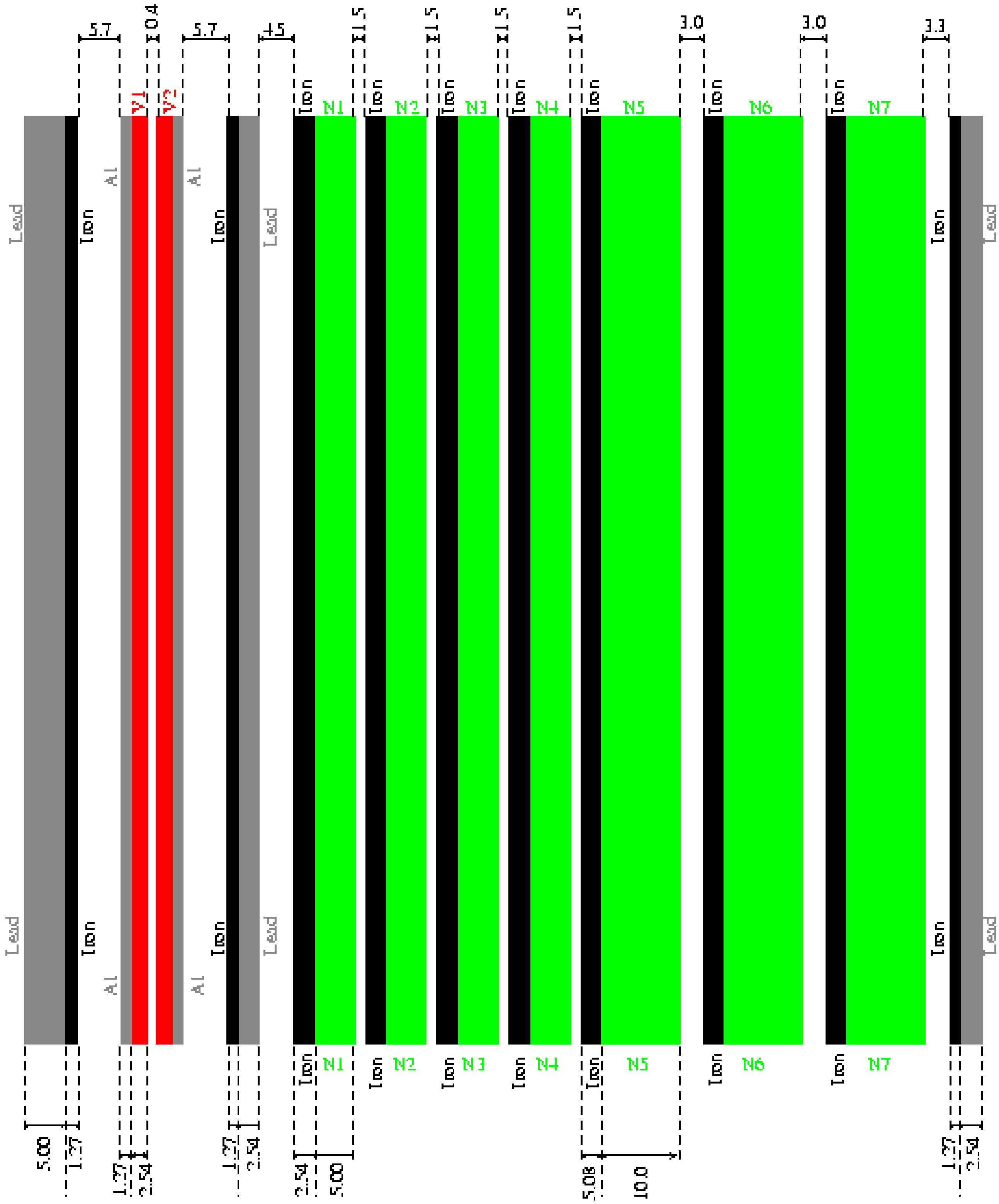

Figure 1: **Neutron detector geometry used in Geant 4, all sizes in cm**

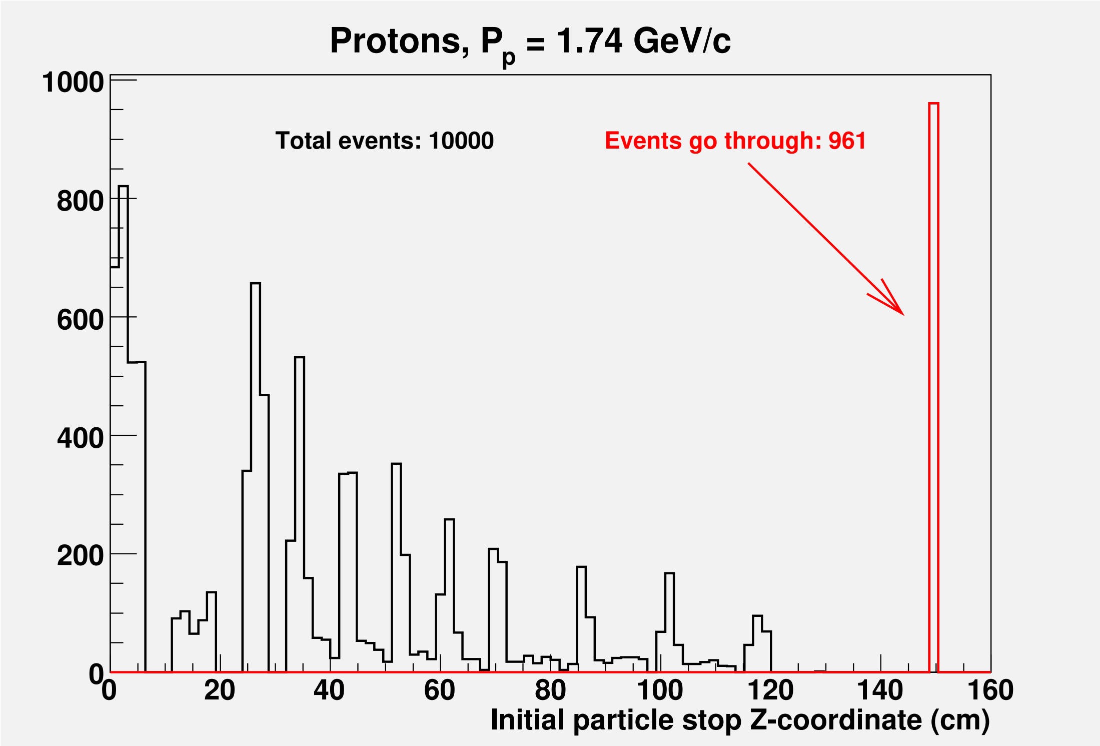

Figure 2: **Protons with initial momentum 1.74 GeV/c**

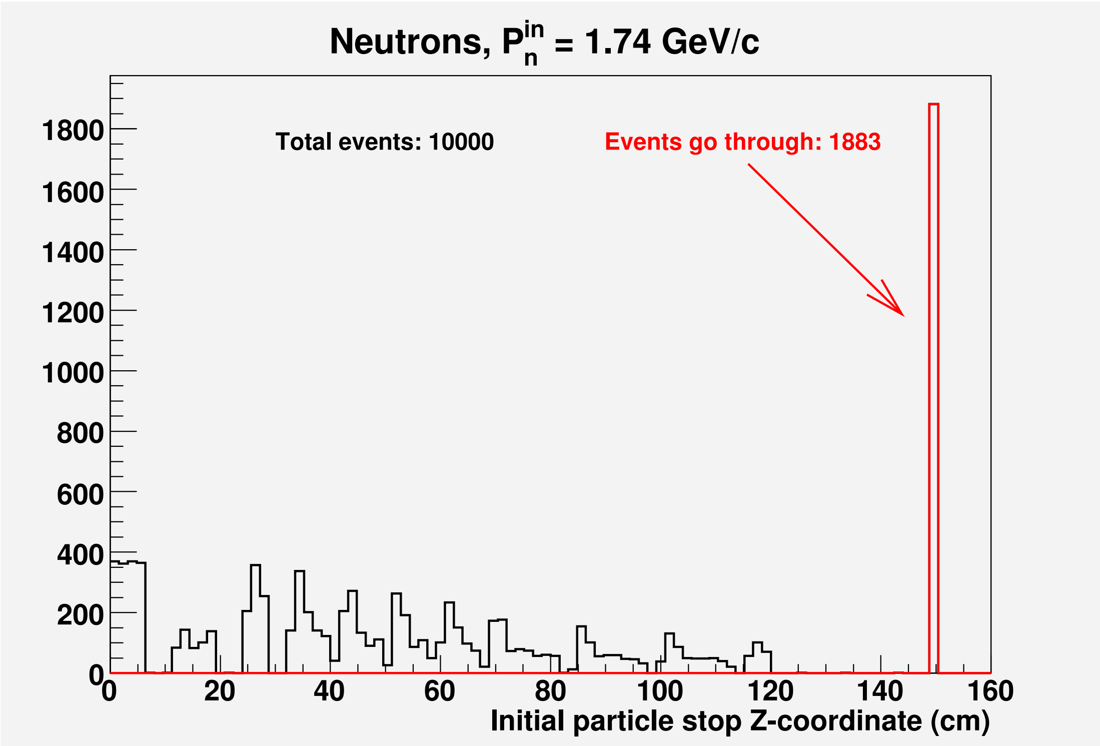

Figure 3: **Neutrons with initial momentum 1.74 GeV/c**

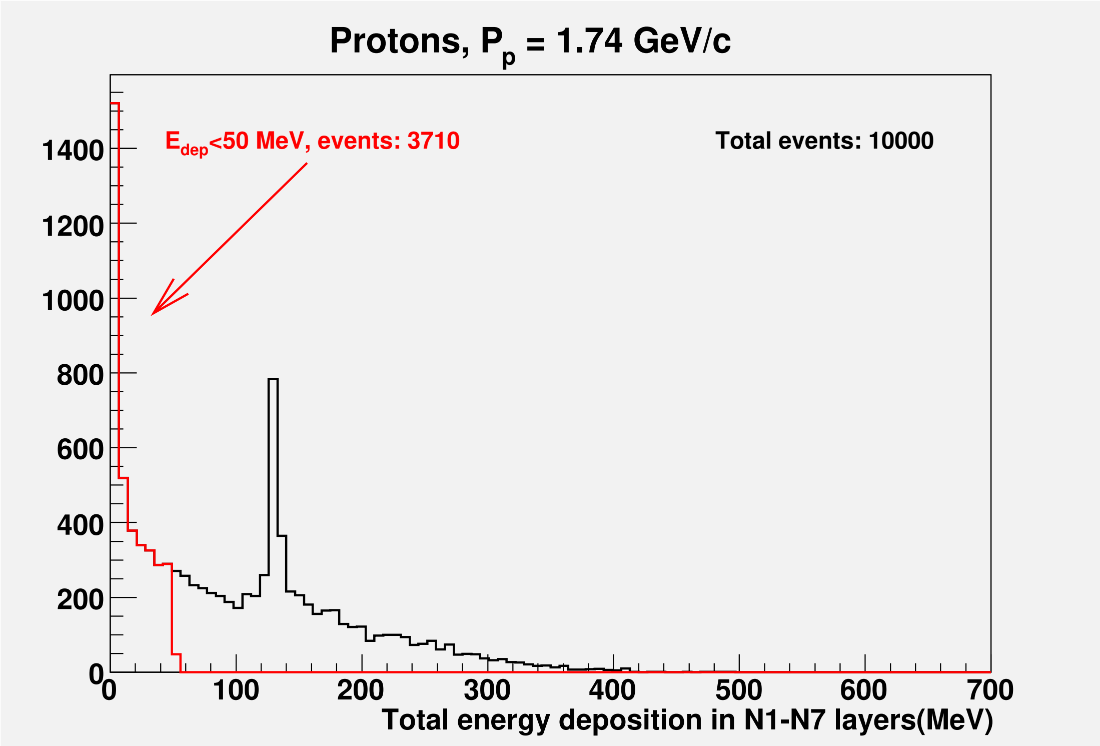

Figure 4: **Protons with initial momentum 1.74 GeV/c**

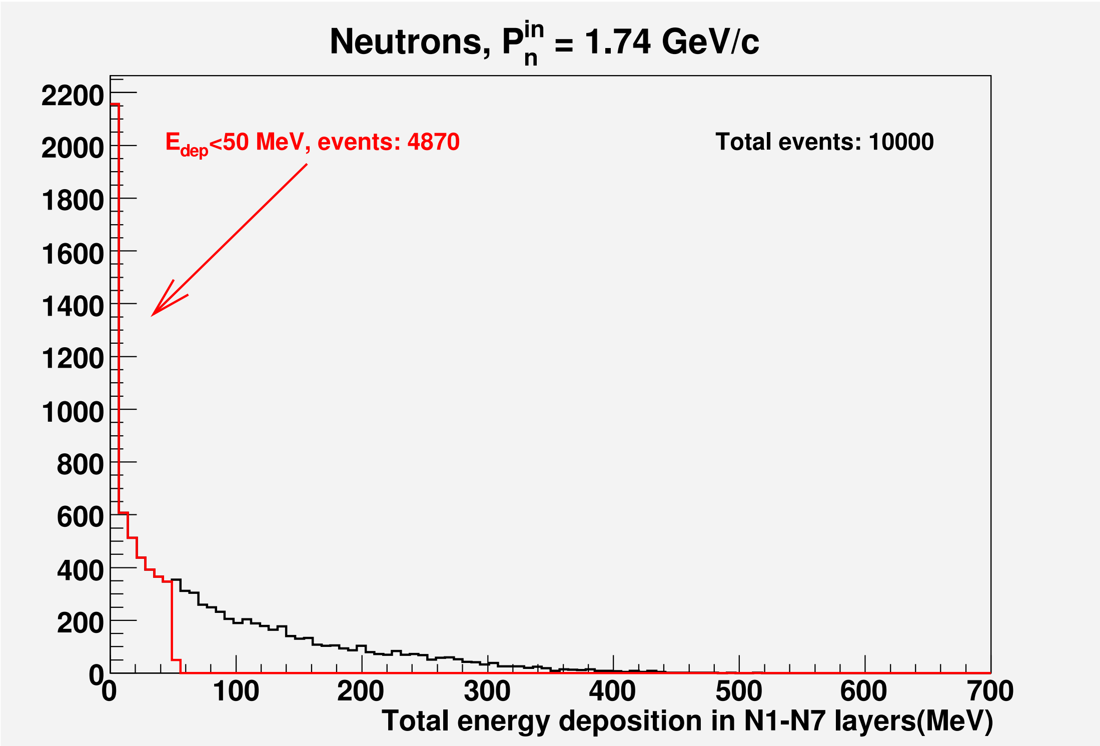

Figure 5: **Neutrons with initial momentum 1.74 GeV/c**

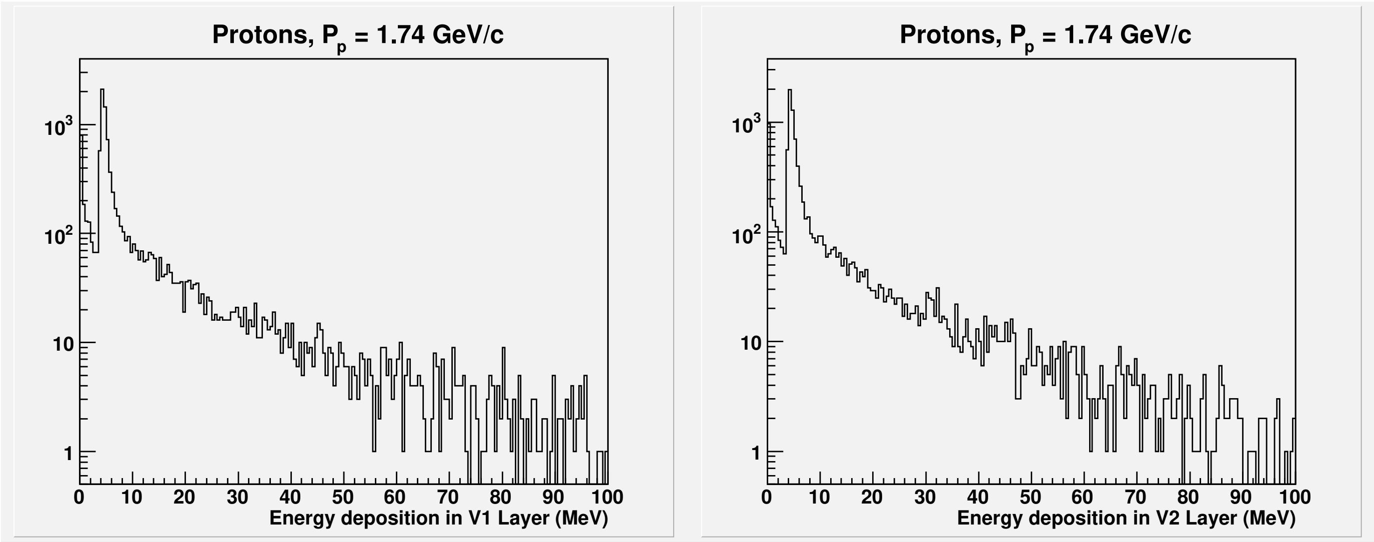

Figure 6: **Protons with initial momentum 1.74 GeV/c**

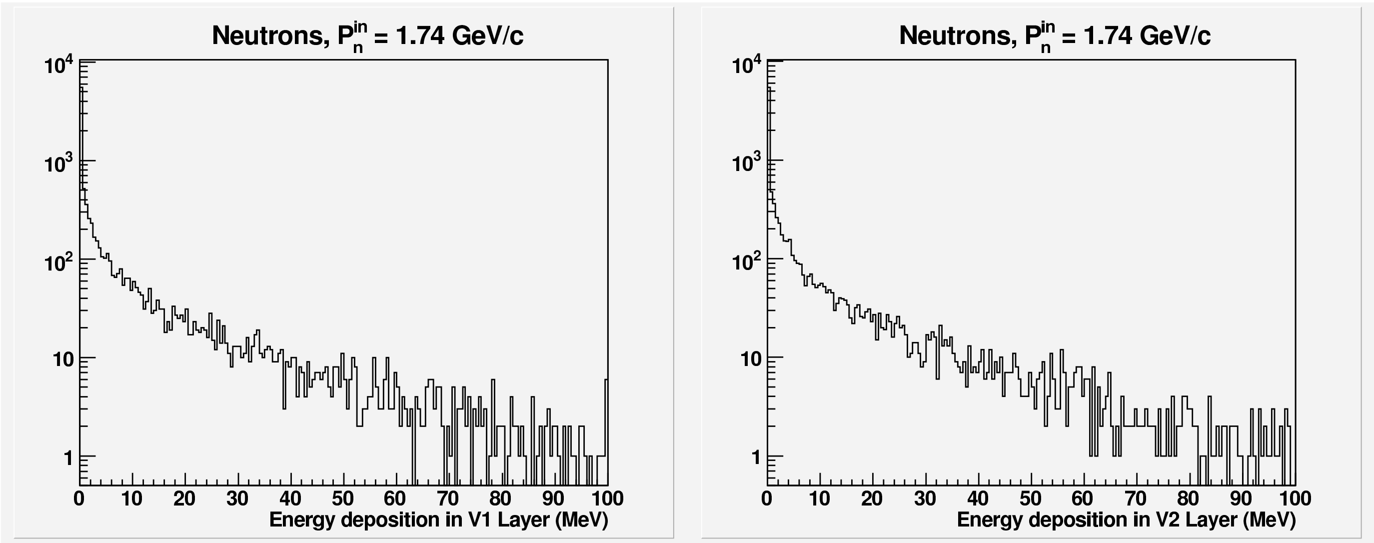

Figure 7: **Neutrons with initial momentum 1.74 GeV/c**

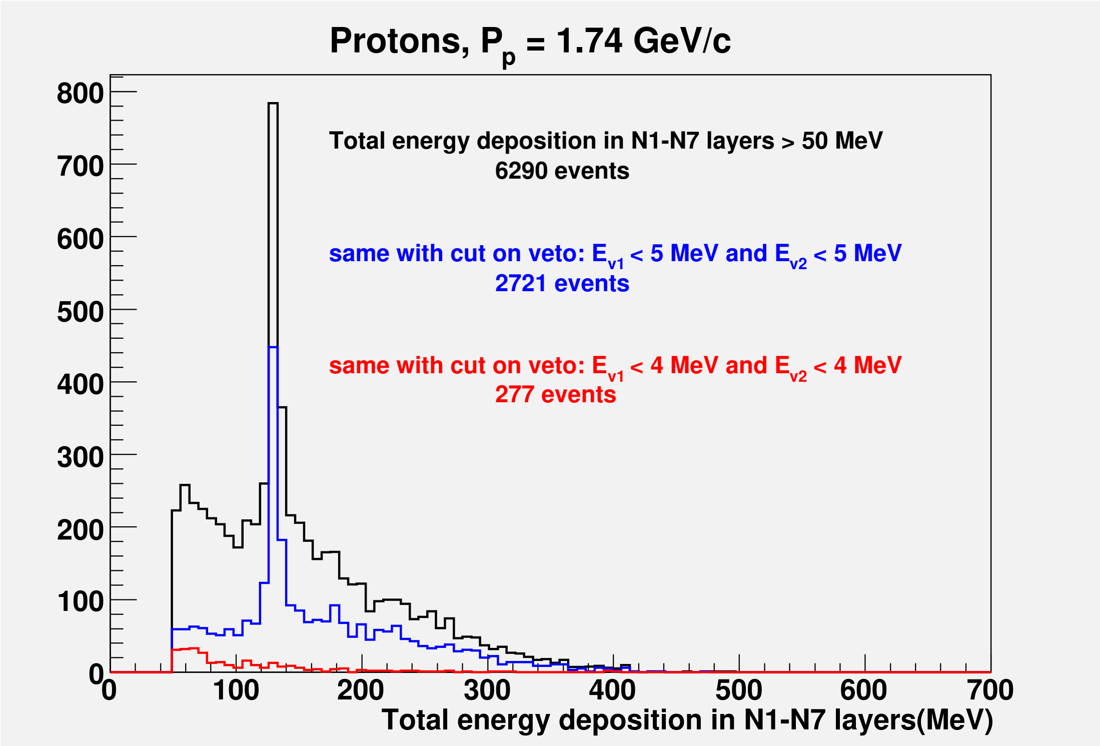

Figure 8: **Protons with initial momentum 1.74 GeV/c**

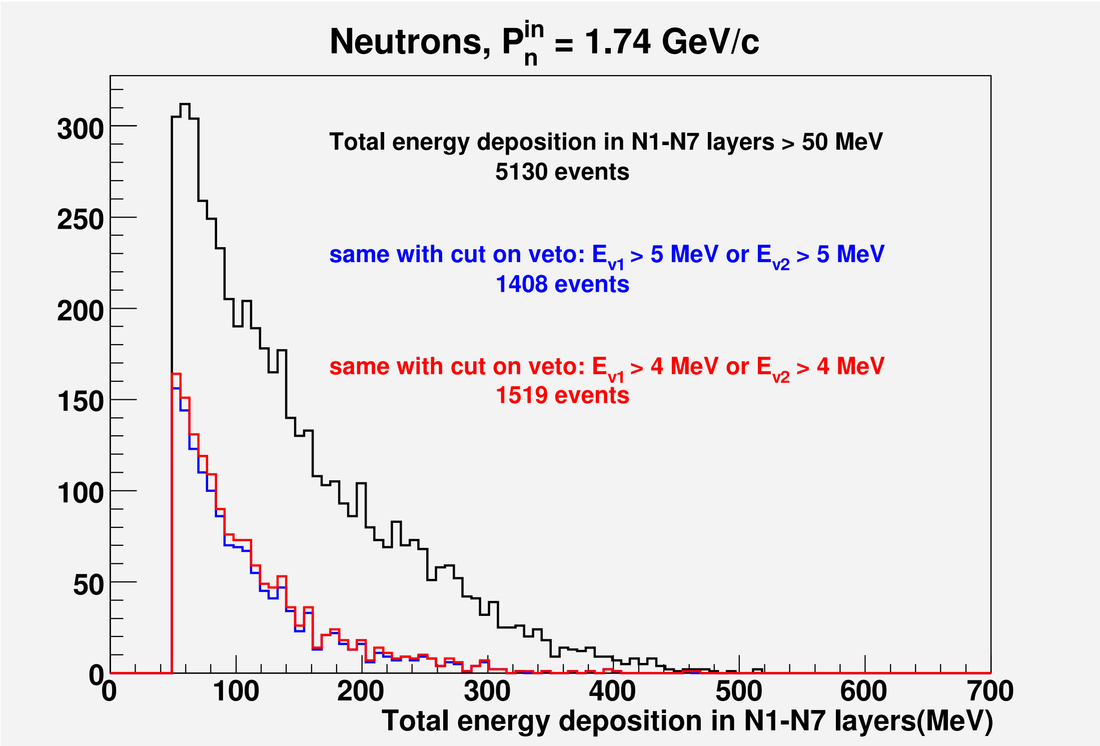

Figure 9: **Neutrons with initial momentum 1.74 GeV/c**

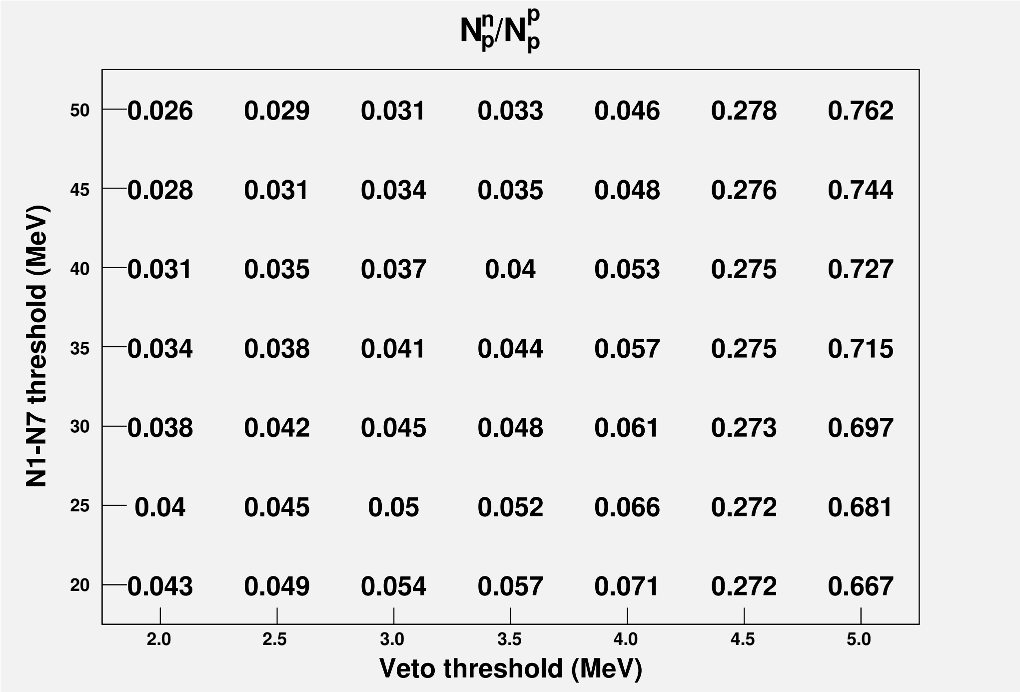

Figure 10: N_p^p **- number of protons observed as protons,** N_p^n **- number of protons observed as neutrons**

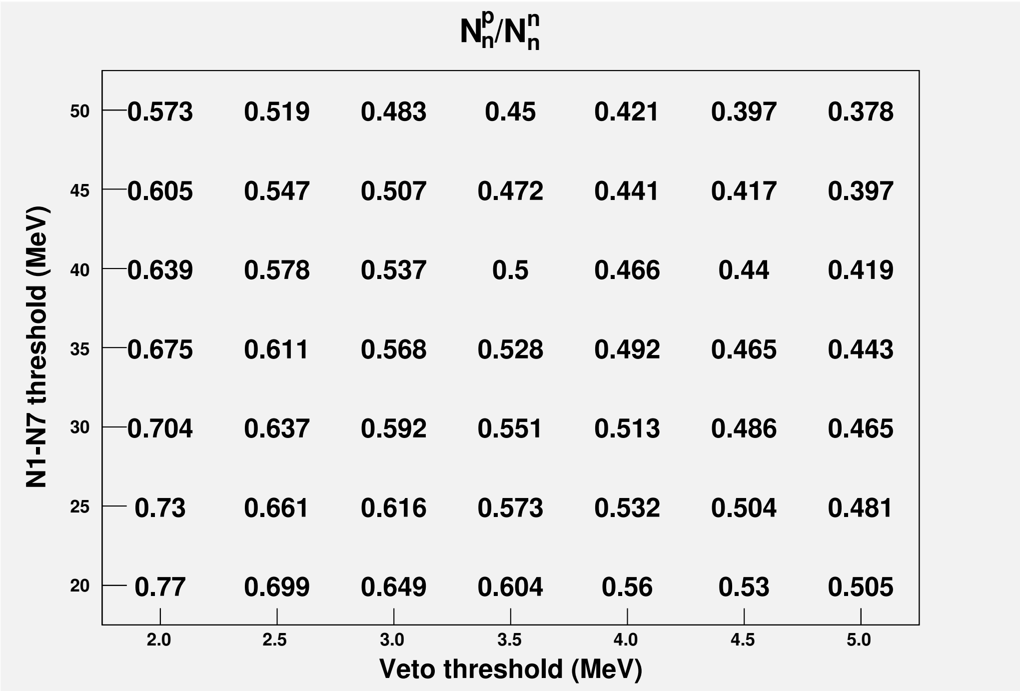

Figure 11: N_n^p **- number of neutrons observed as protons,** N_n^n **- number of neutrons observed as neutrons**

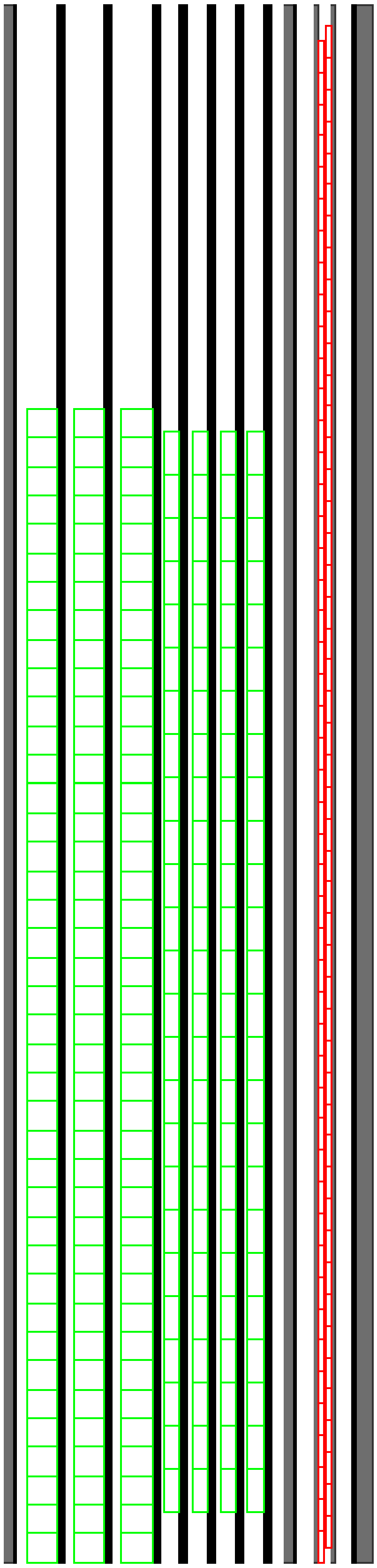

Figure 12: **New neutron detector geometry for Geant 4**