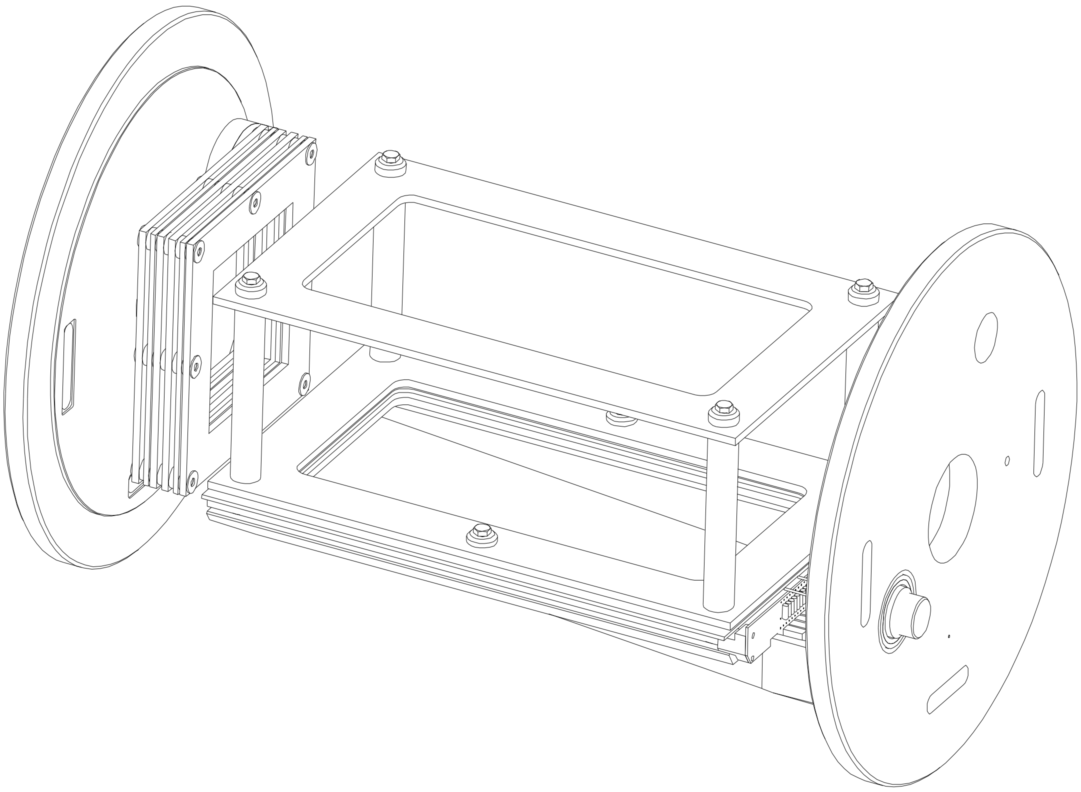
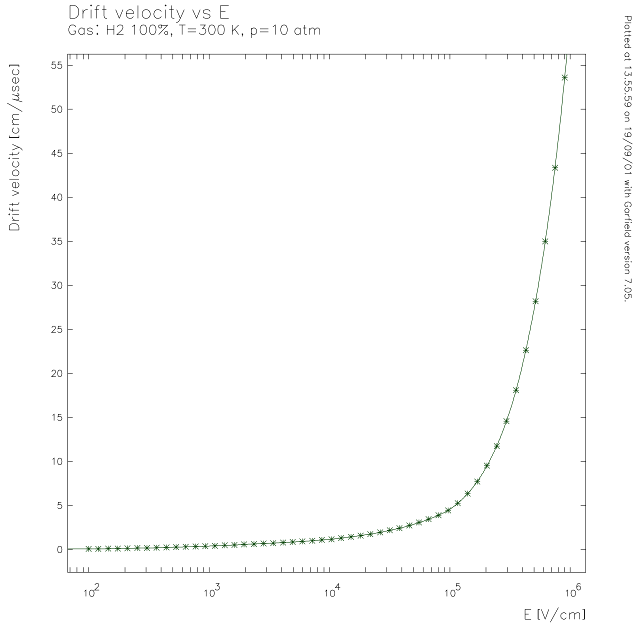
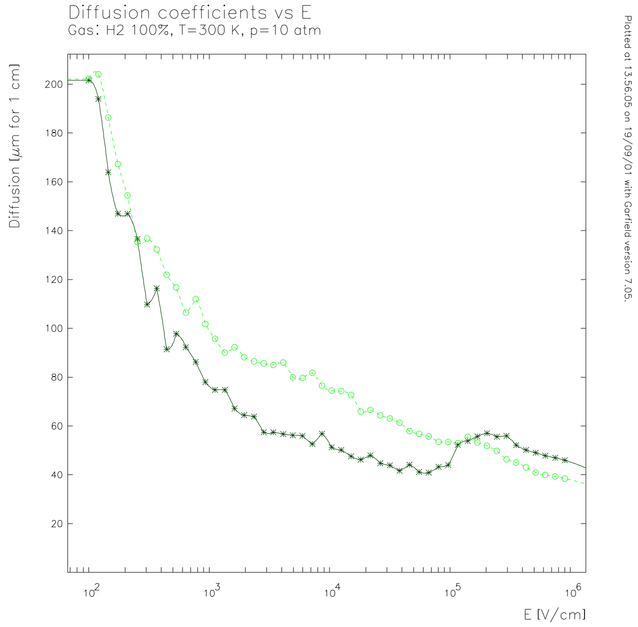


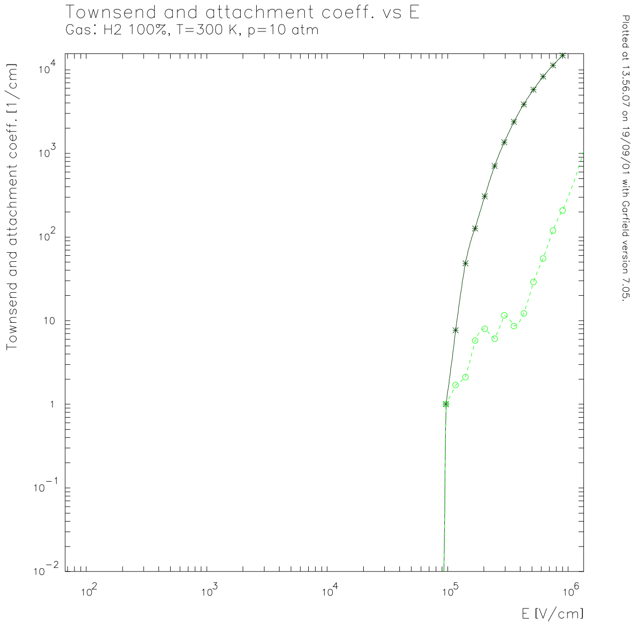
Fig. 1: Perspective sideview of the chambers



(a) Drift velocity vs. E



(b) Logitudinal (dark green) and transverse (green) diffusion vs. E



(c) Townsend (dark green) and attachment (green) coefficient vs. E

Fig. 2: Gas properties of hydrogen at 10 atm

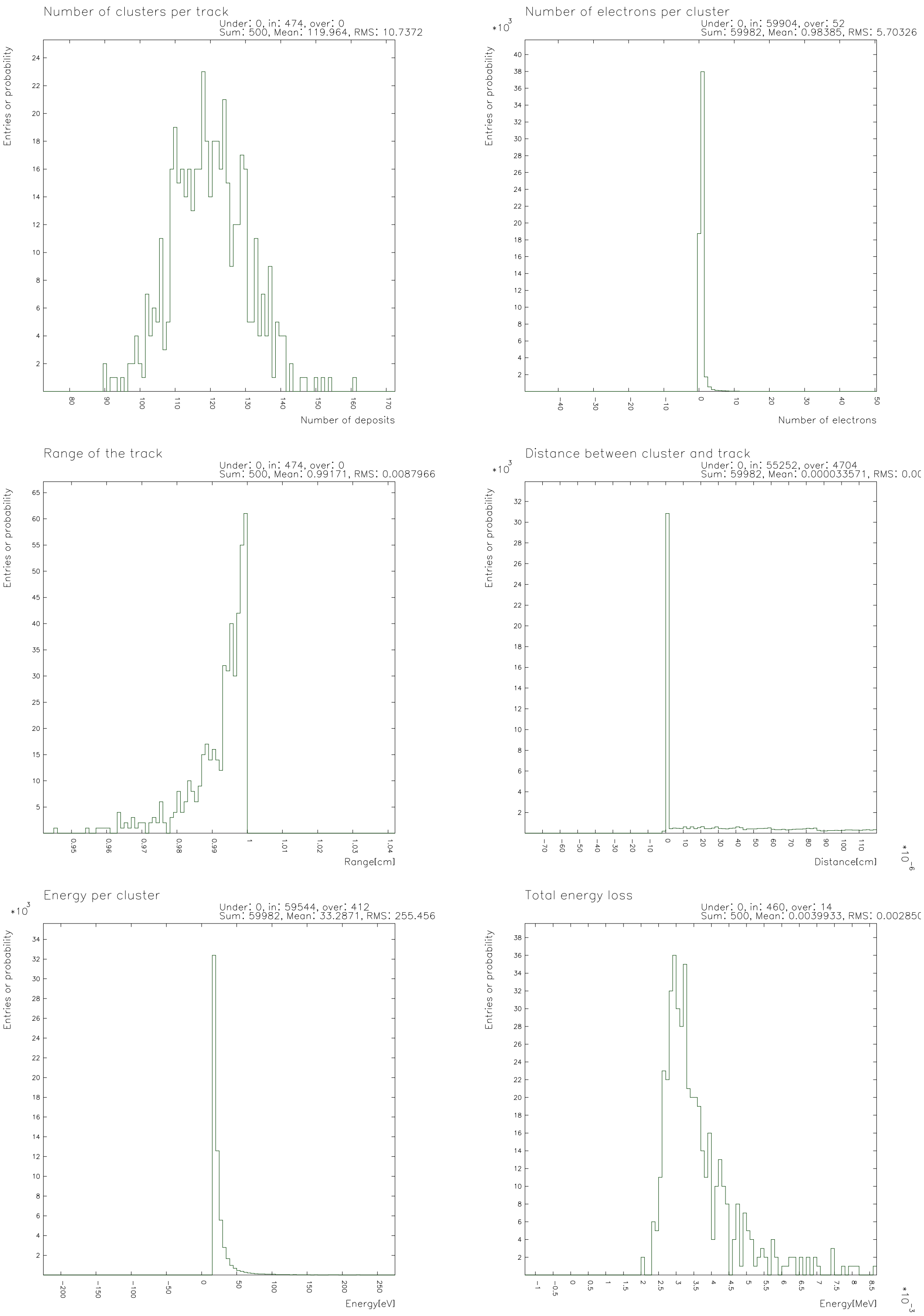


Fig. 3: Cluster histograms for 1cm of track for muon at energy 50 MeV: (Top-left) probability of number of clusters per track, (Top-right) probablility of number of electrons per cluster, (Center-left) probability of range of the track in cm, (Center-right) probability of distance between cluster and track in cm, (Bottom-left) probability of energy per Cluster in eV, and (Bottom-right) probability of total energy loss in MeV

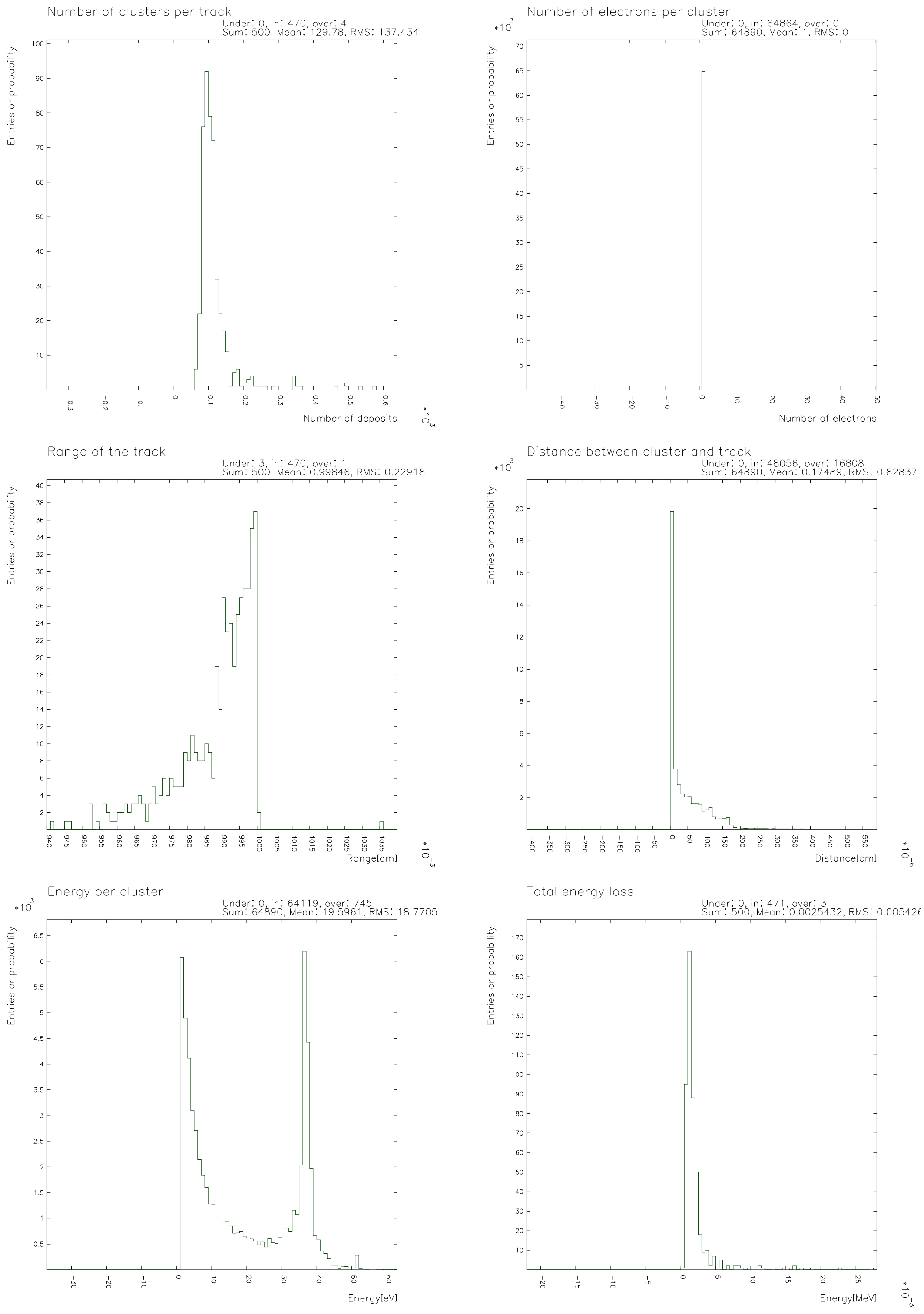


Fig. 4: Cluster histograms for 1cm of track for muon at energy 1 GeV: (Top-left) probability of number of clusters per track, (Top-right) probablility of number of electrons per cluster, (Center-left) probability of range of the track in cm, (Center-right) probability of distance between cluster and track in cm, (Bottom-left) probability of energy per Cluster in eV, and (Bottom-right) probability of total energy loss in MeV

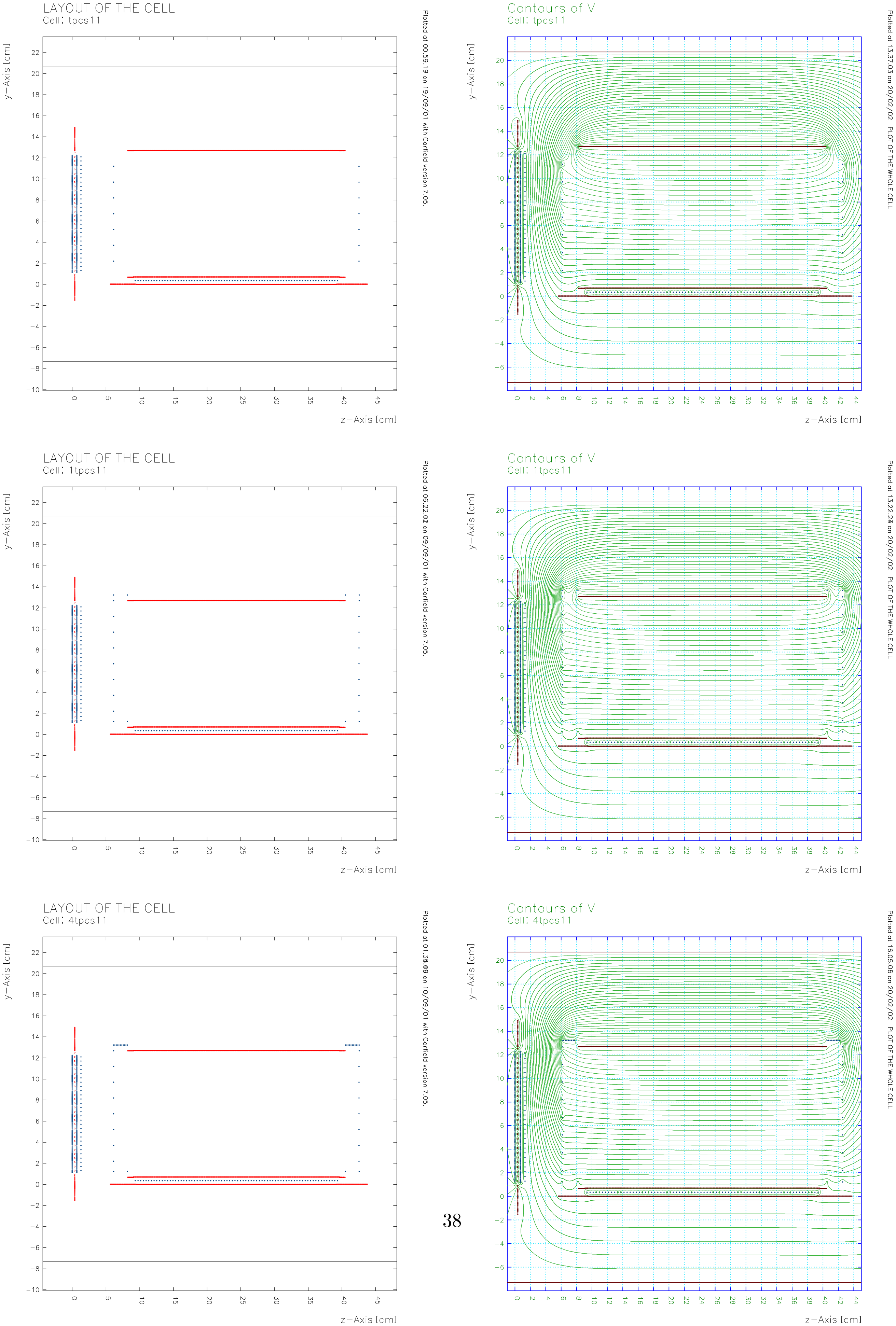
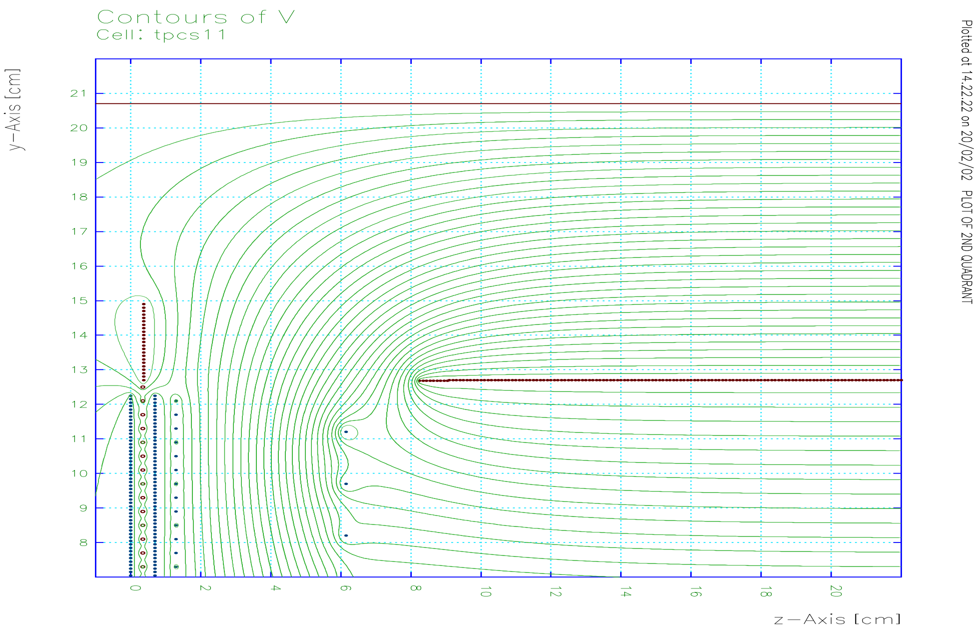
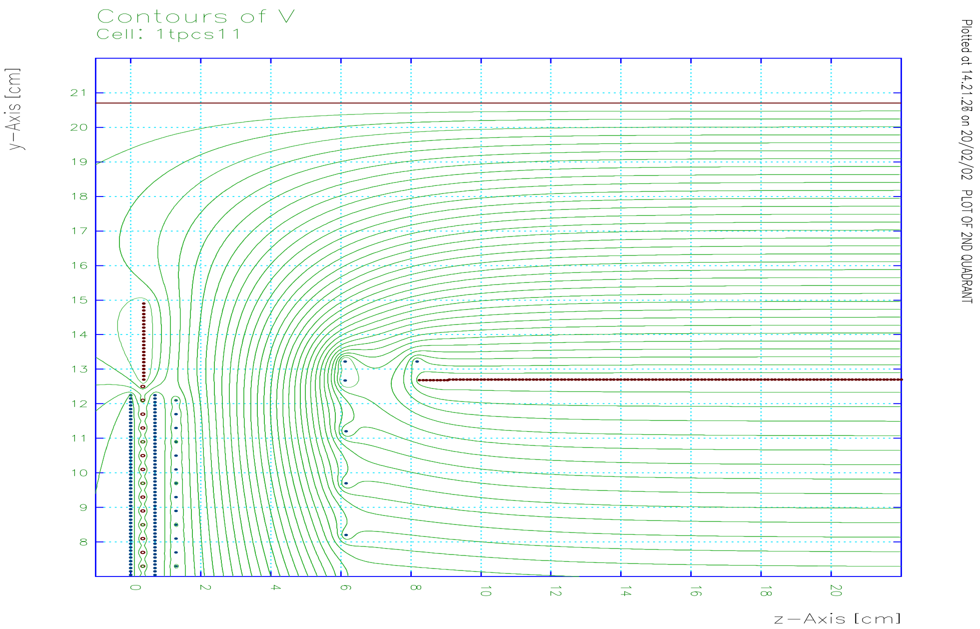


Fig. 5: Model A, B and E





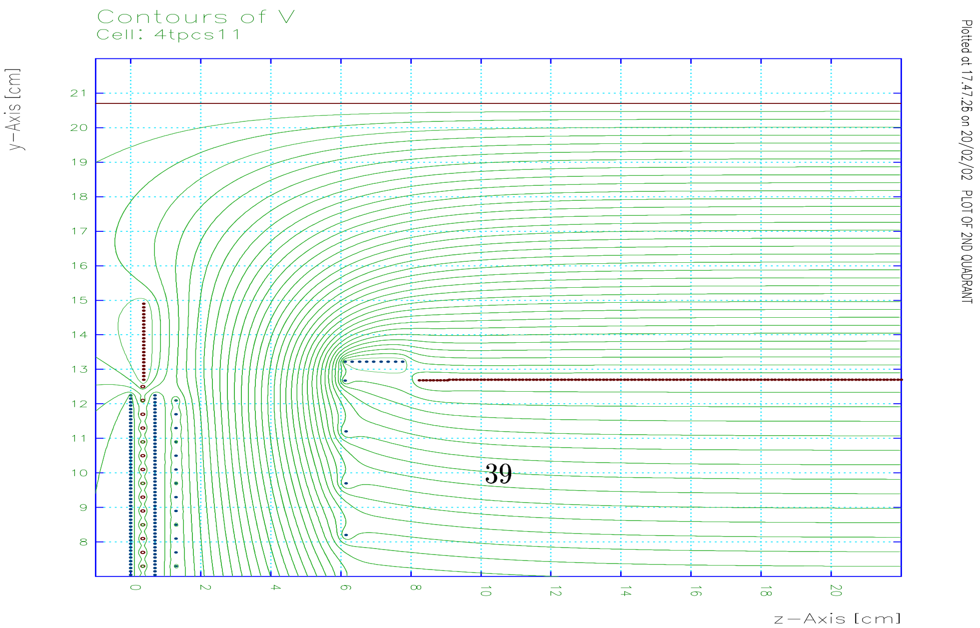


Fig. 6: Model A, B and E

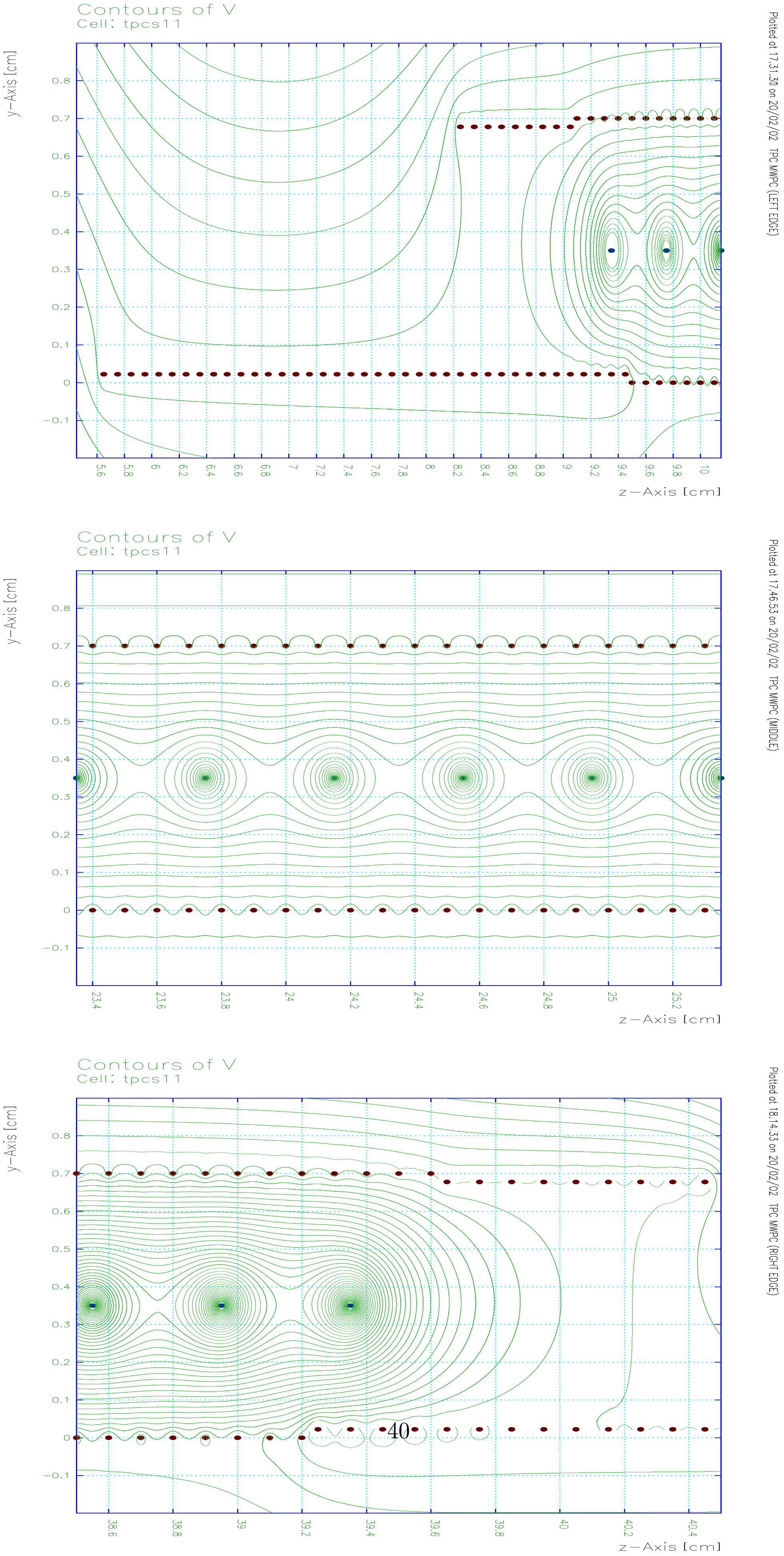


Fig. 7: Model A, TPC wire chamber

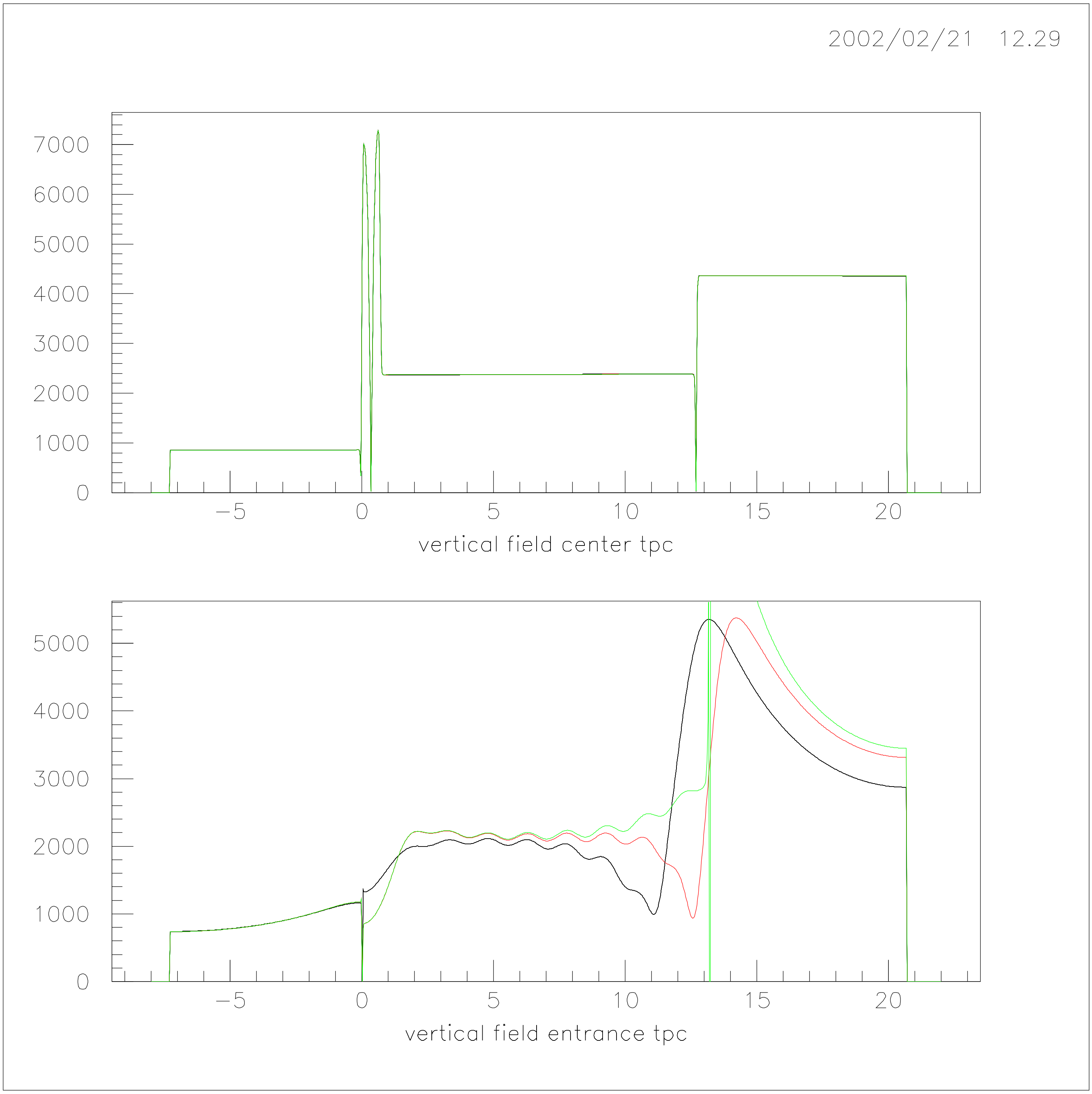


Fig. 8: Vertical field homogeneity. Abscissa: y(cm), Ordinate(E_y (V/cm): Black=Model A, Red=B, Green=E

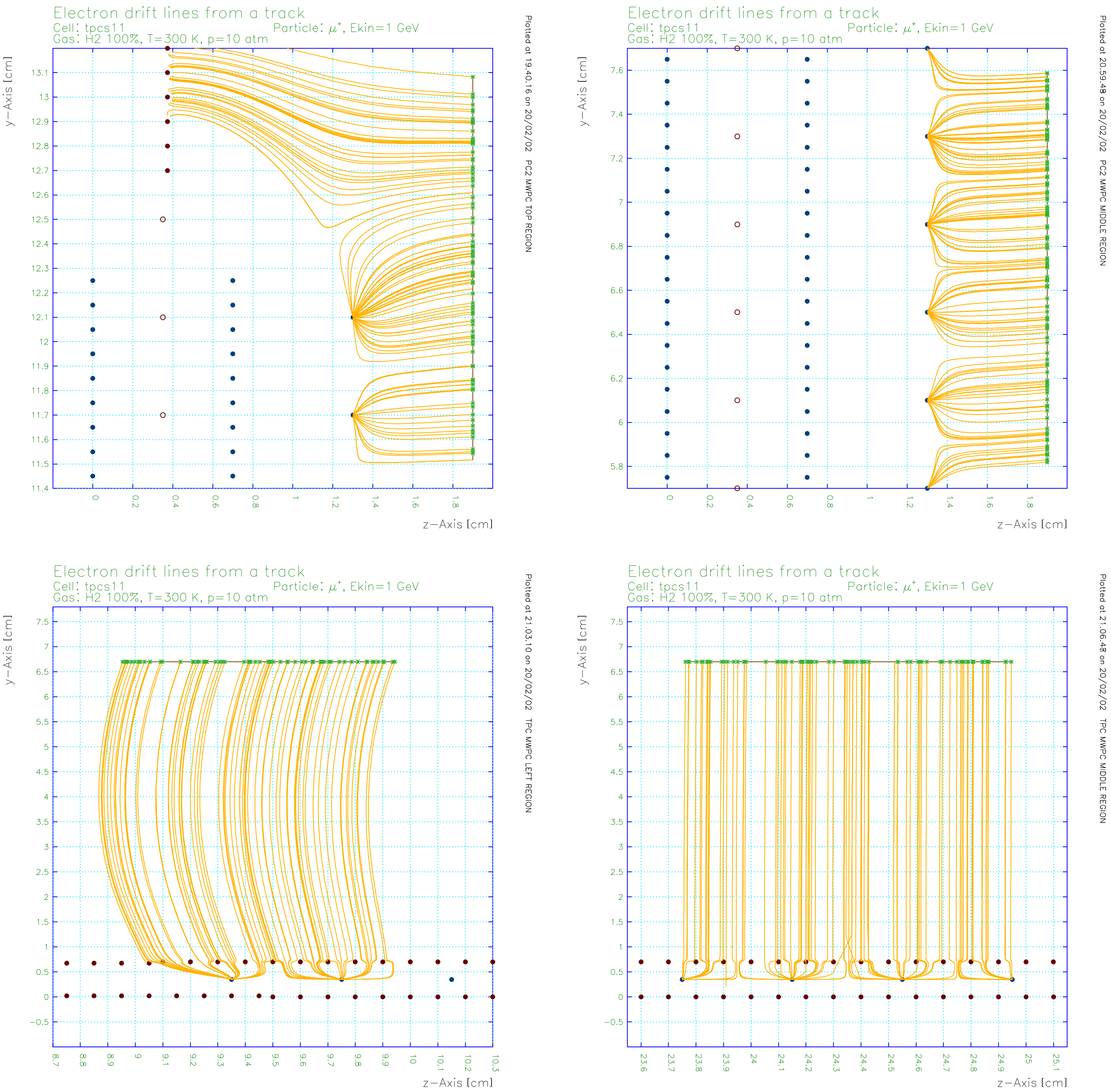


Fig. 9: Model A, upper row: e-drift μPC, lower row: e-drift TPC

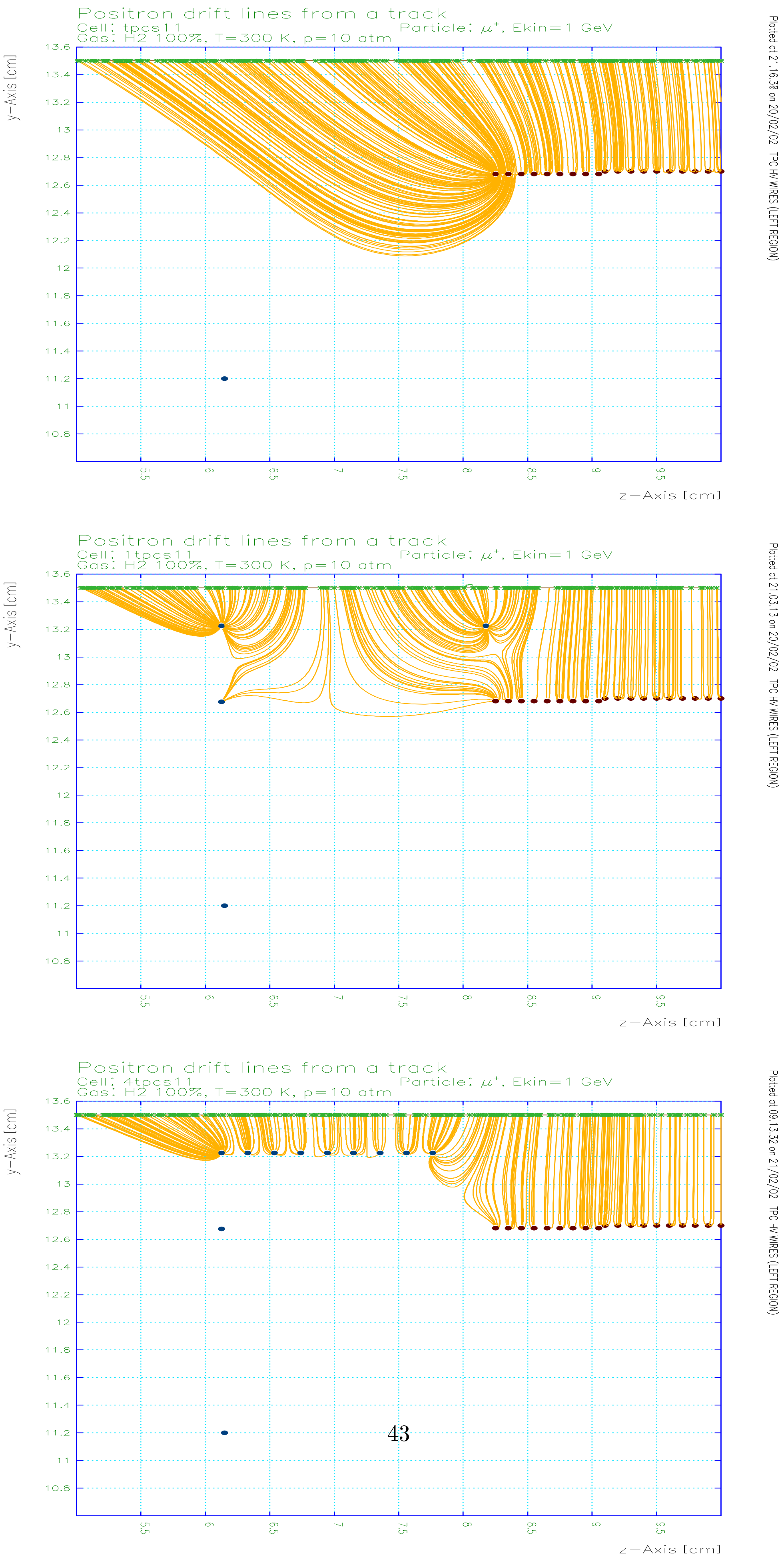


Fig. 10: Model A, B and E, "positron" drift lines HV cathode

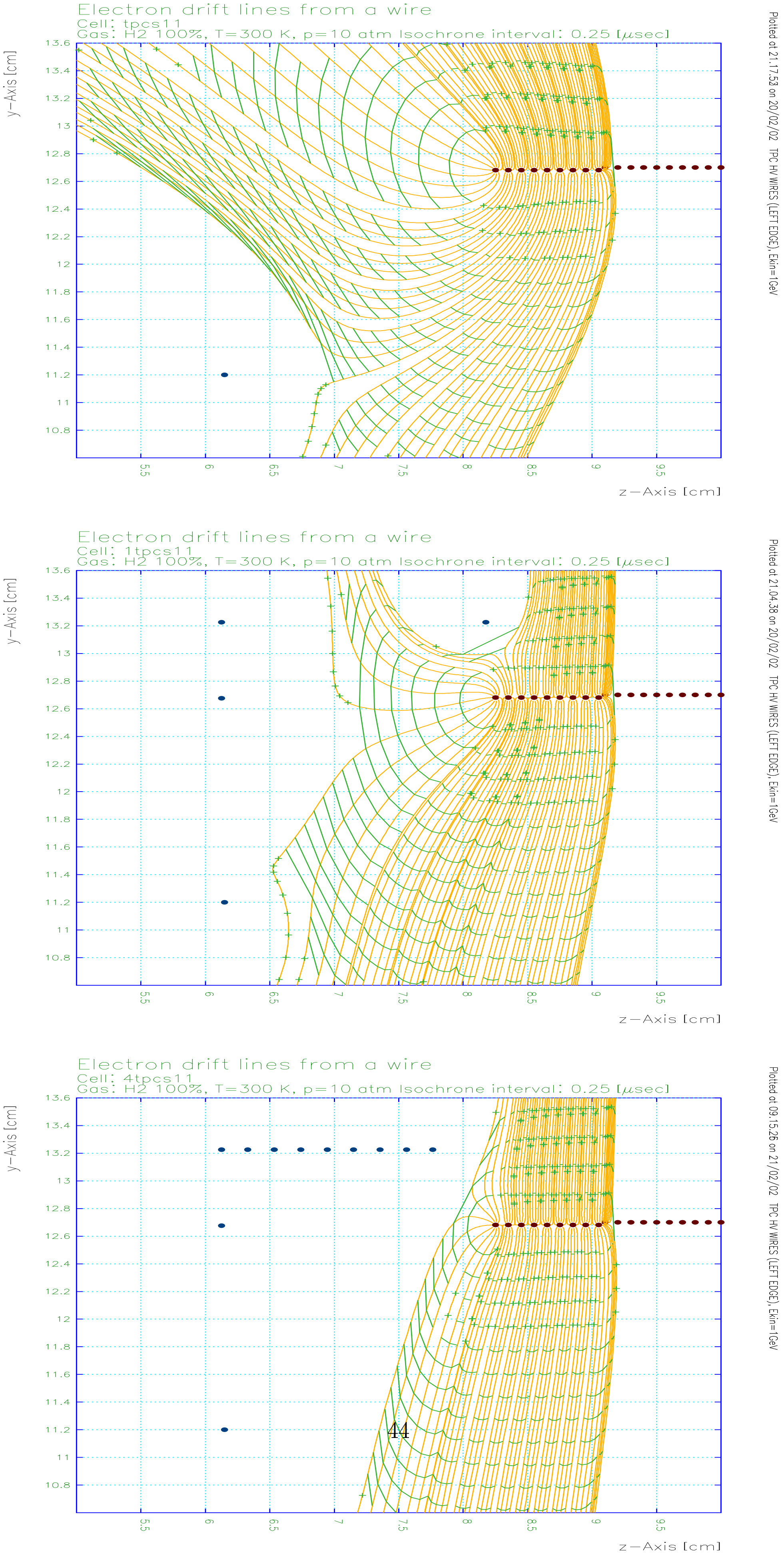


Fig. 11: Model A, B and E, “electron” drift lines HV cathode