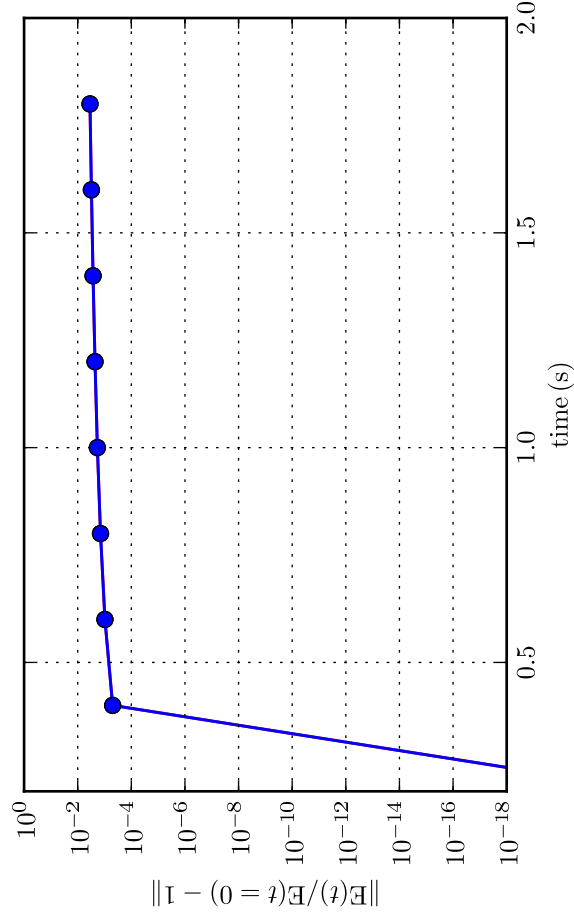
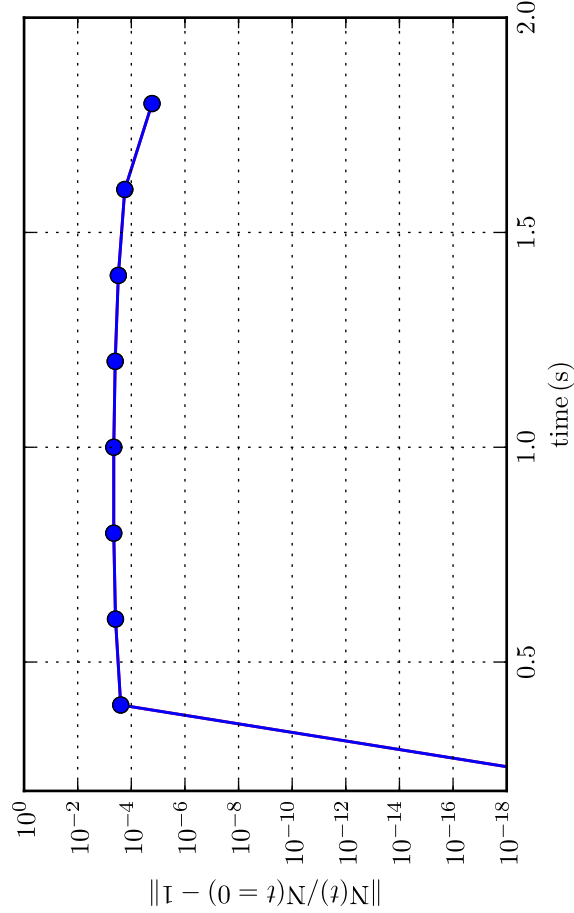
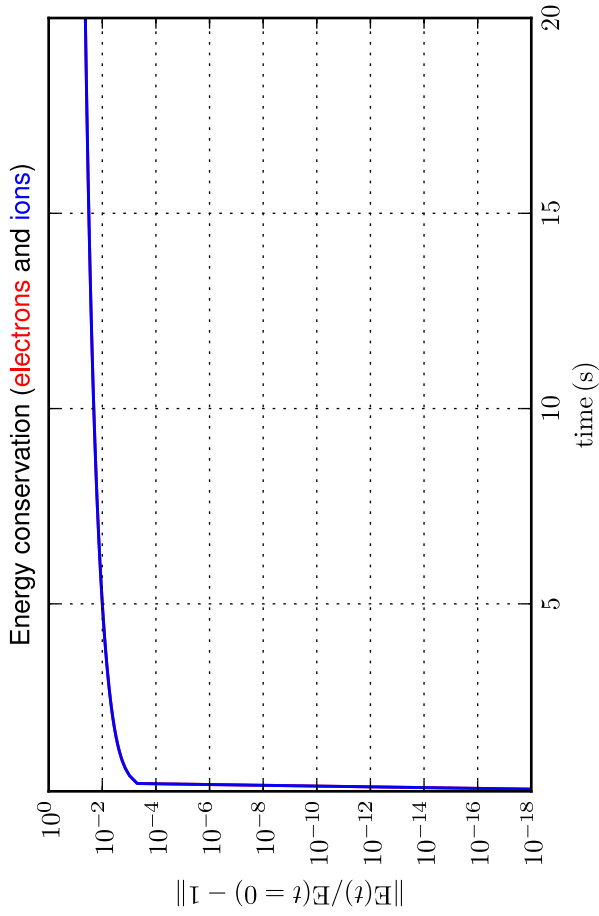
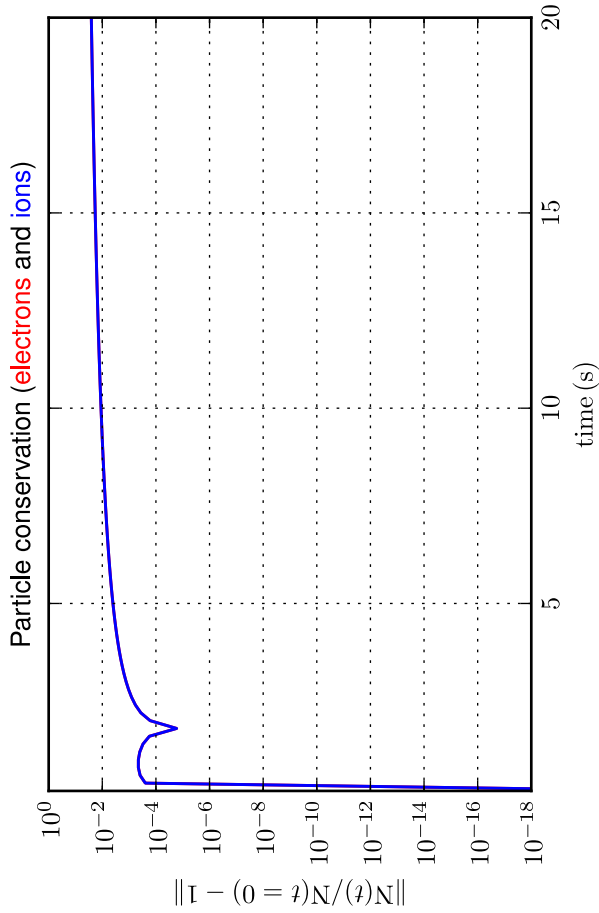
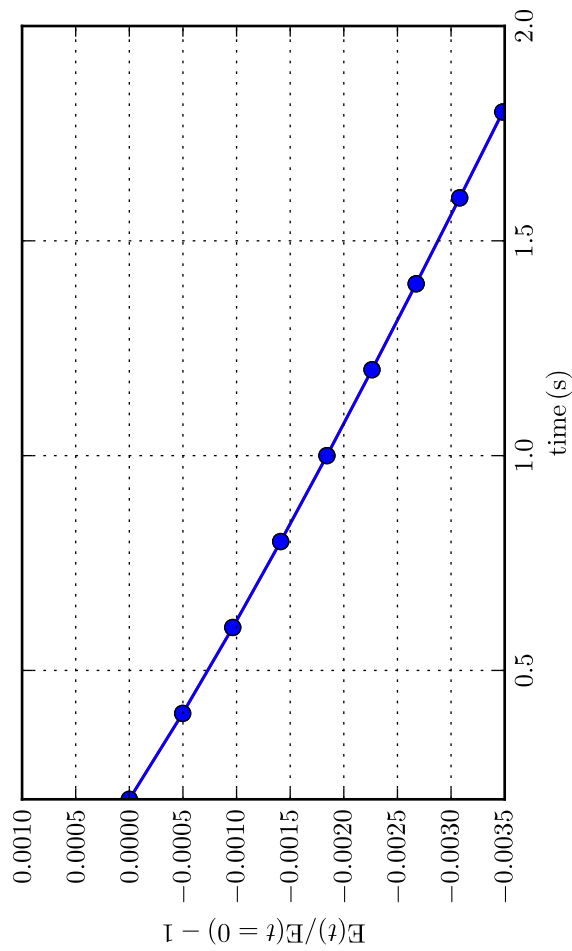
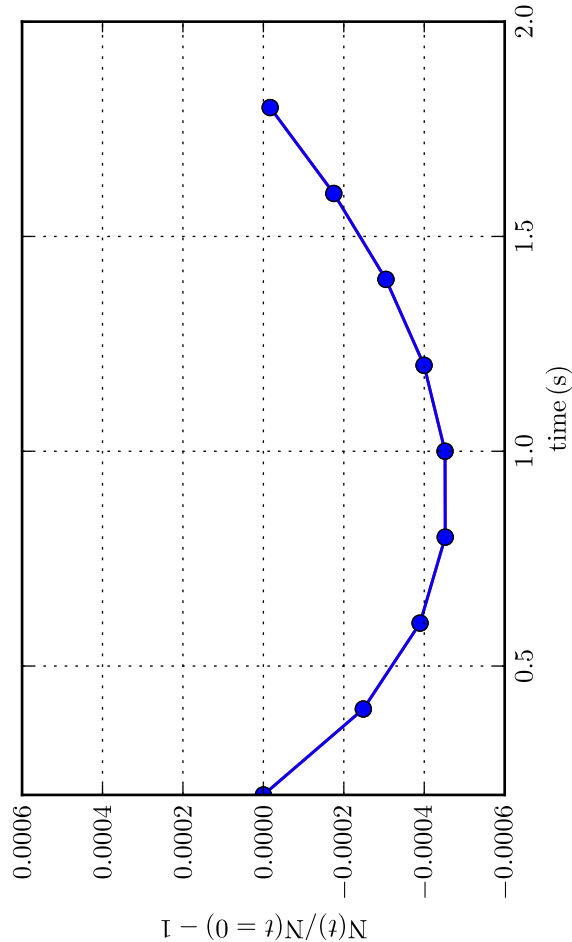
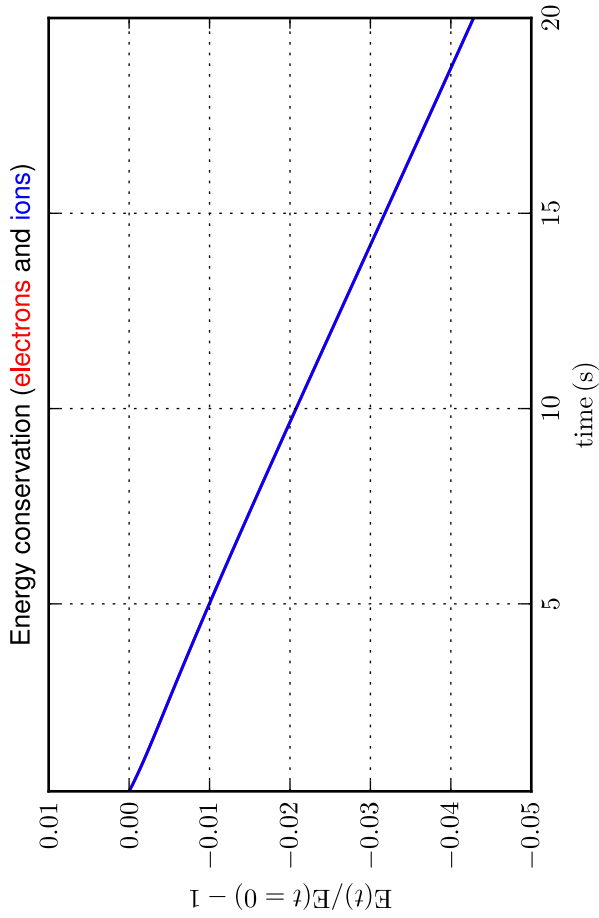
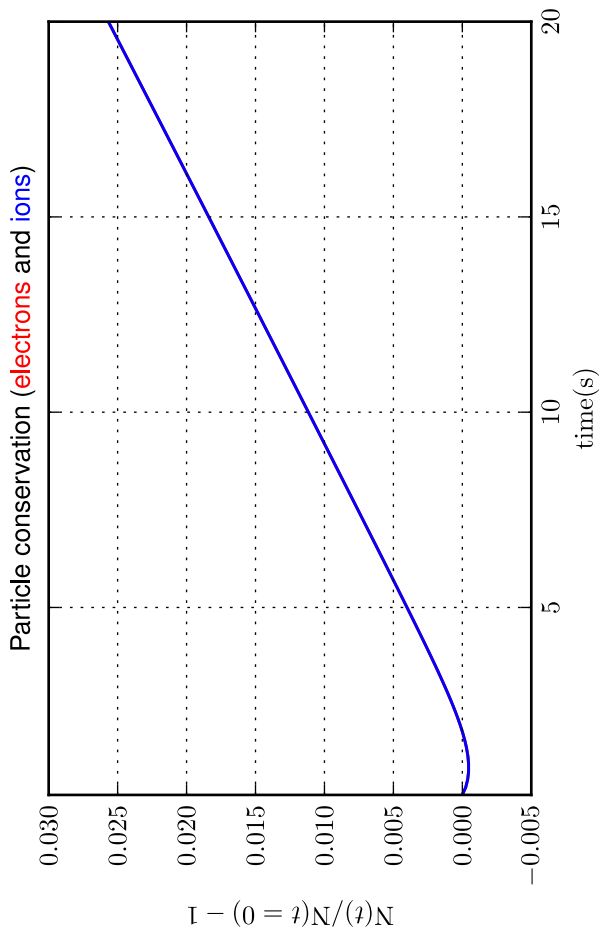


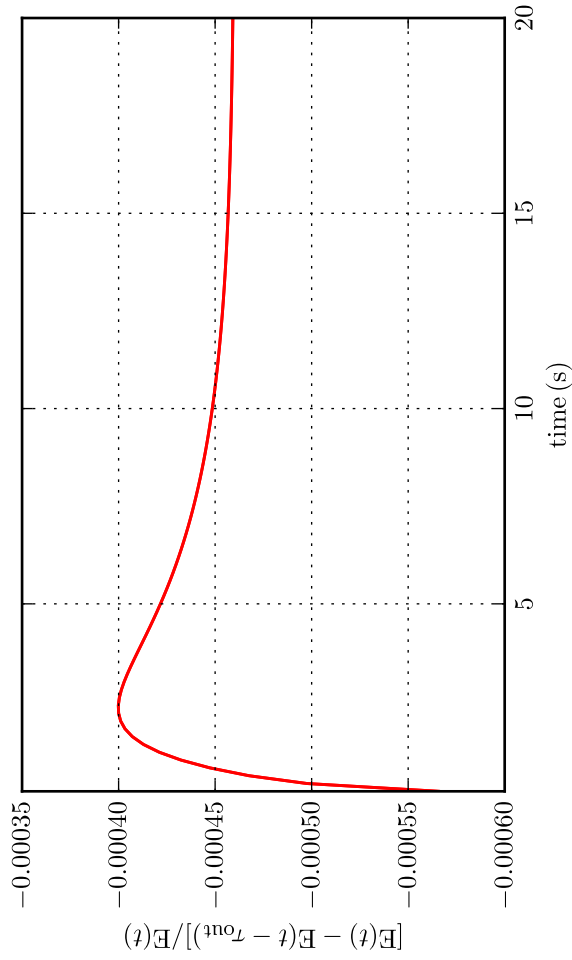
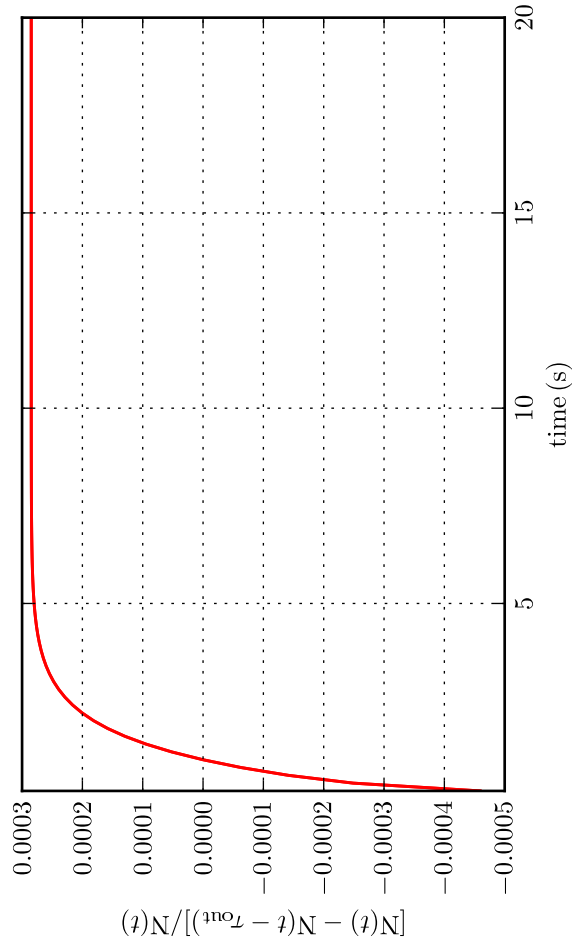
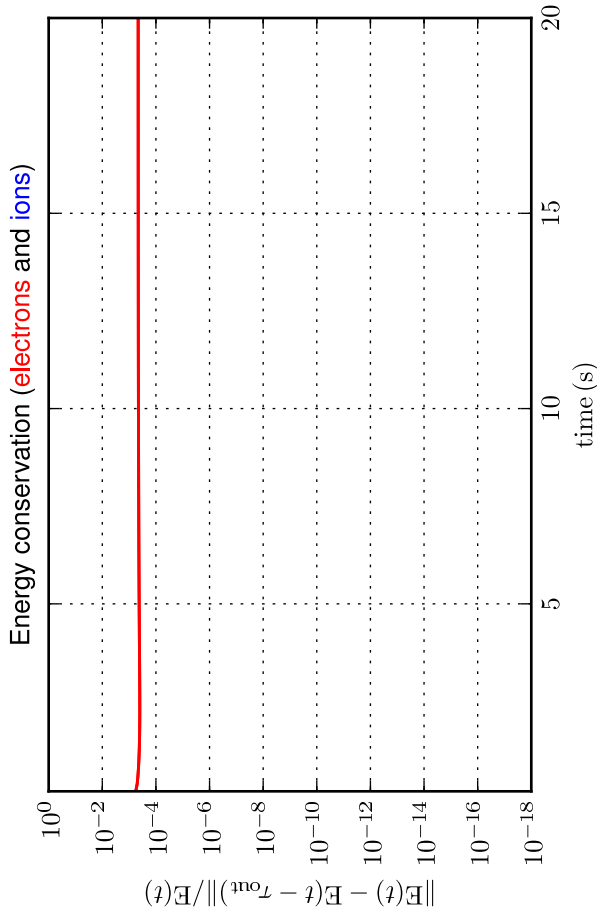
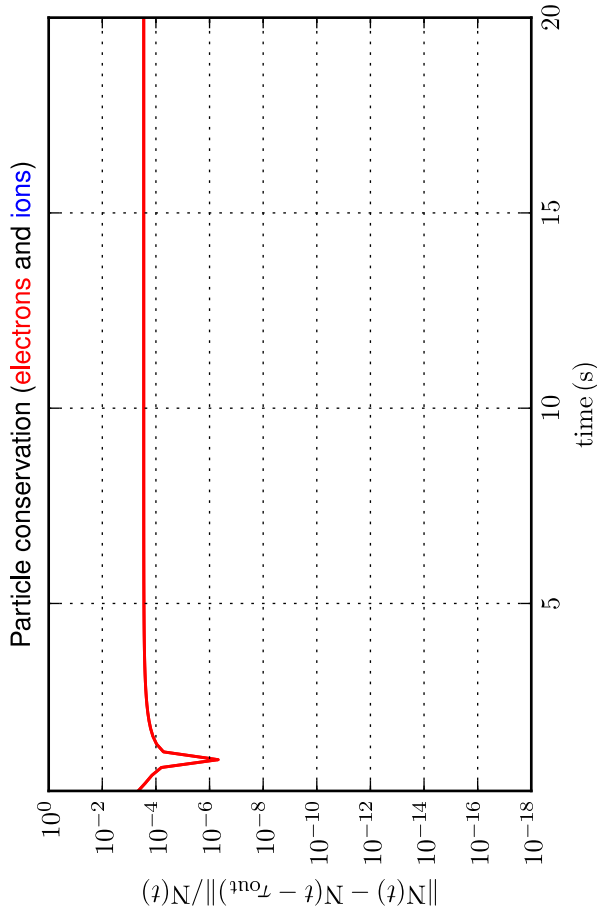
Part. & Energy conservation [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with initial solution - log scale; total time and zoom over time



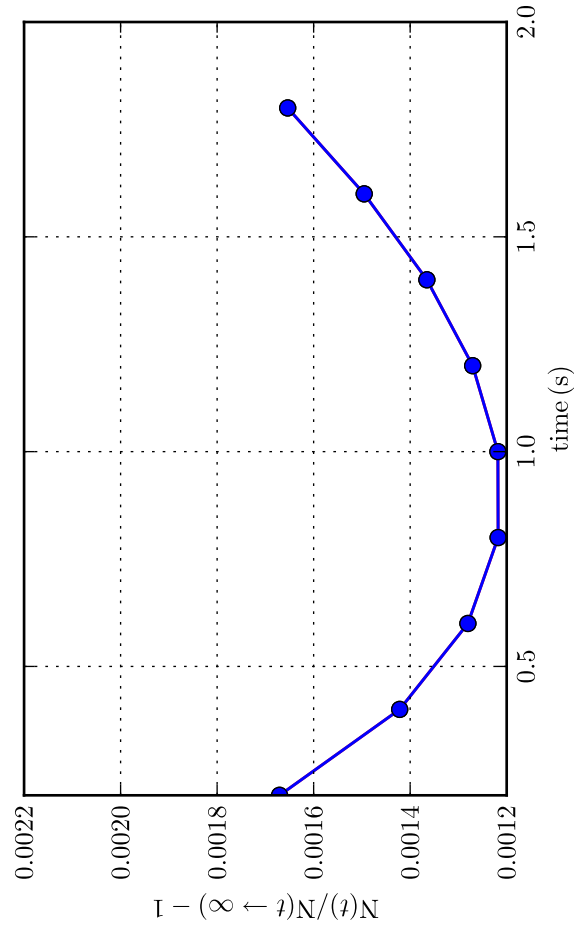
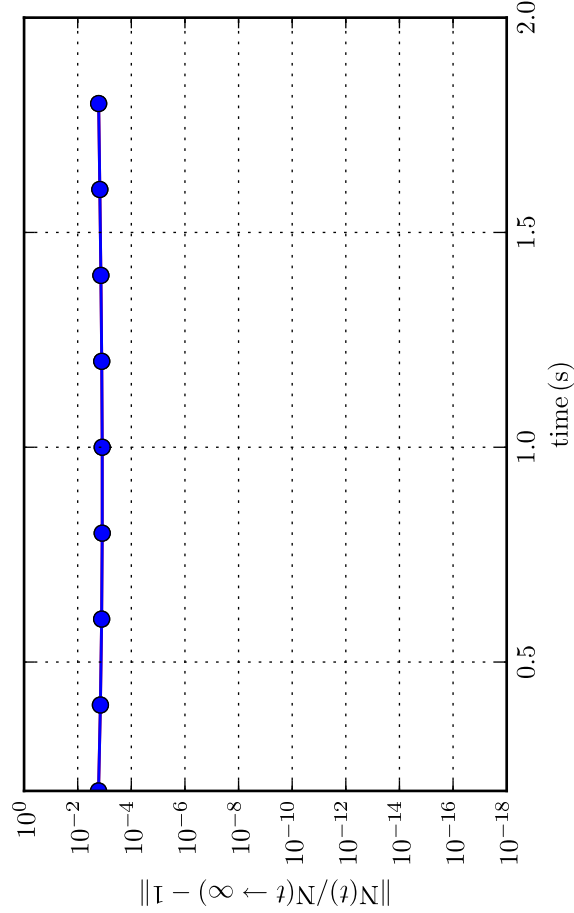
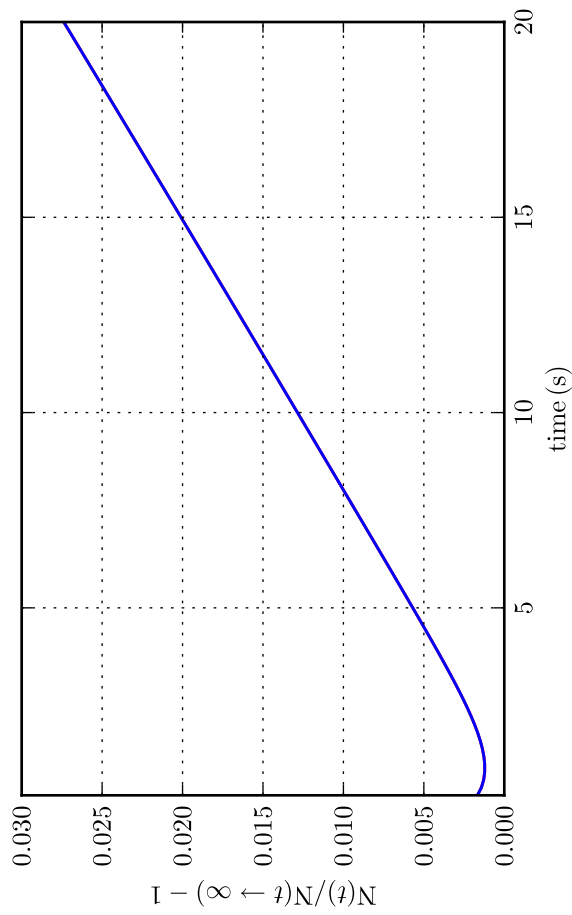
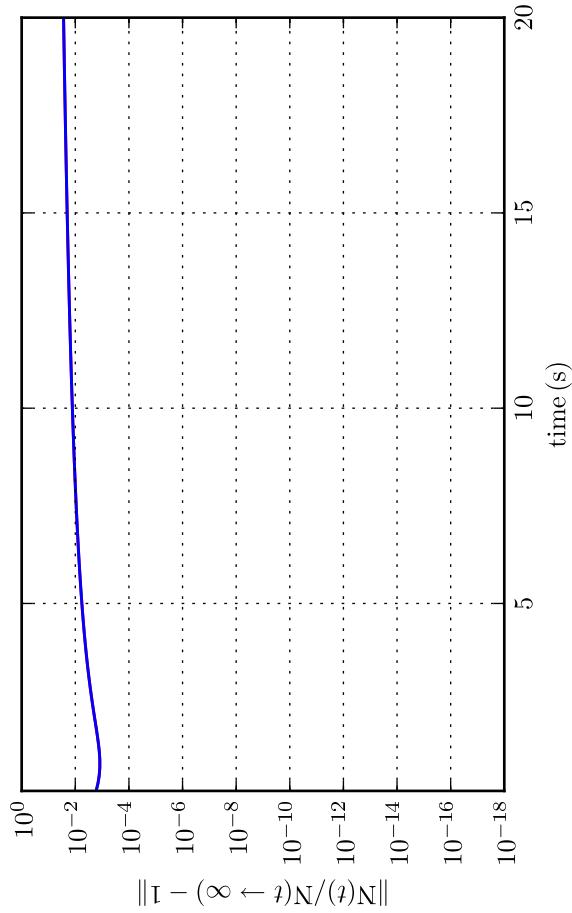
Part. & Energy conservation [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
Comparison with initial solution - linear scale; total time and zoom over time



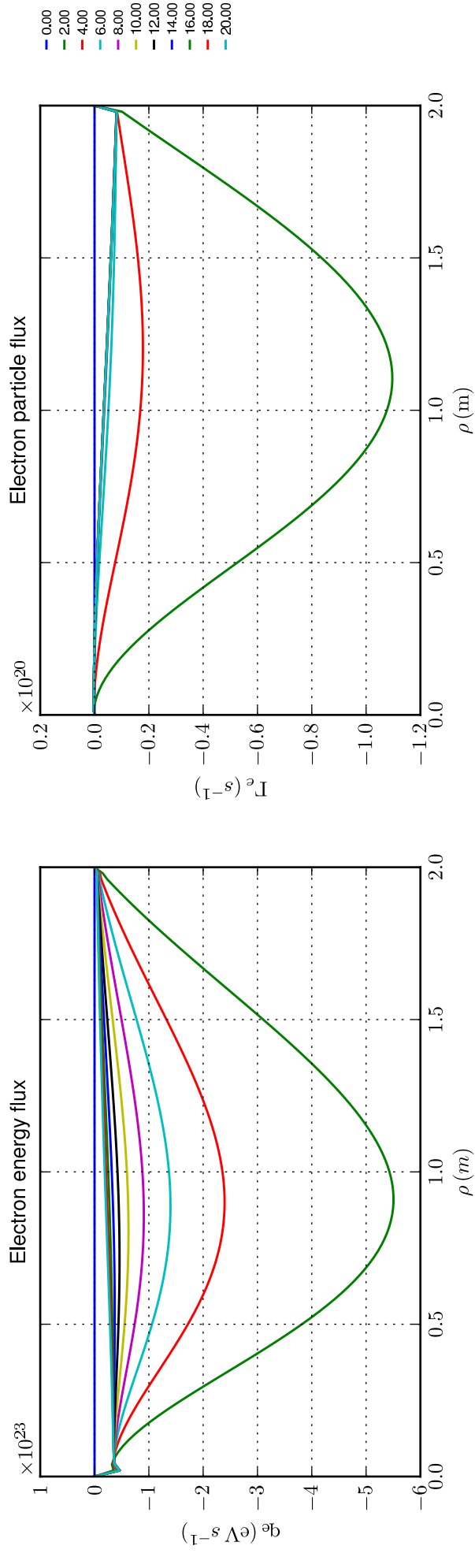
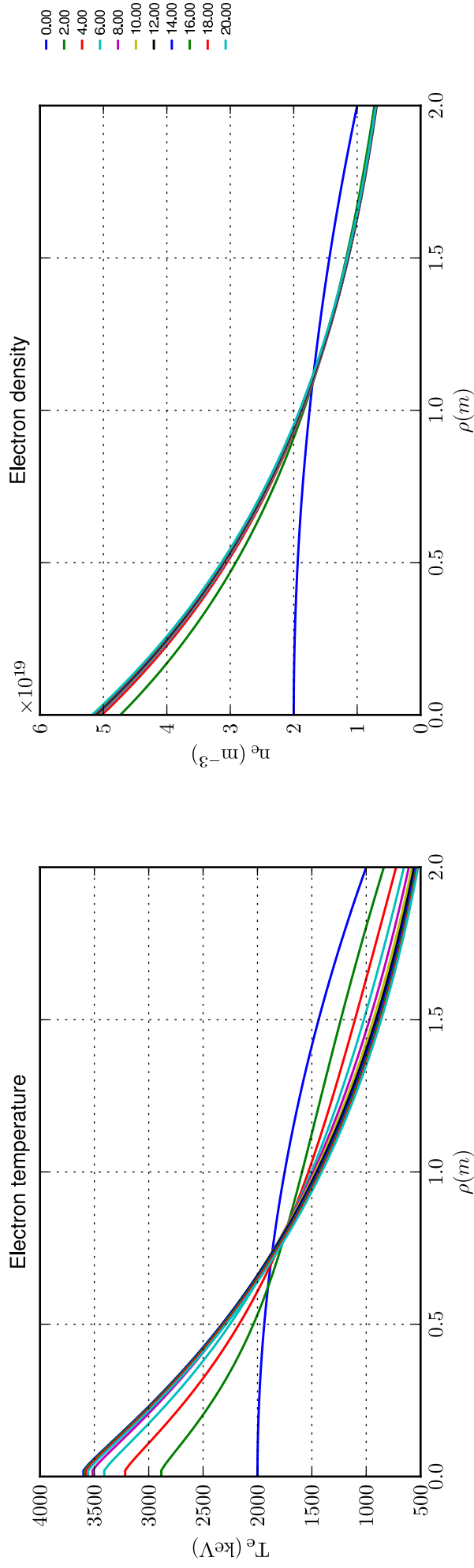
Part. & Energy conservation [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with previous time-sampled (τ_{out}) solution - log and linear scales



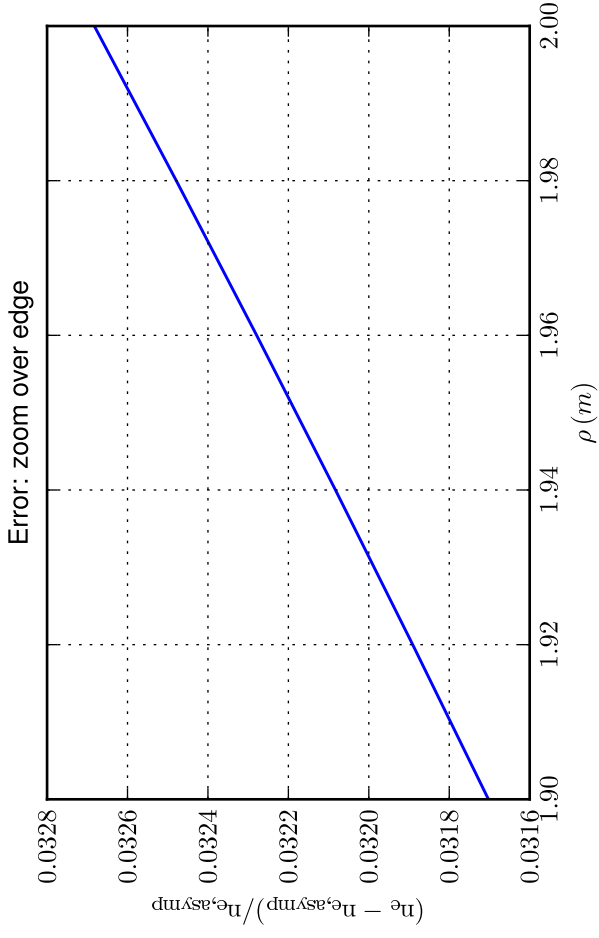
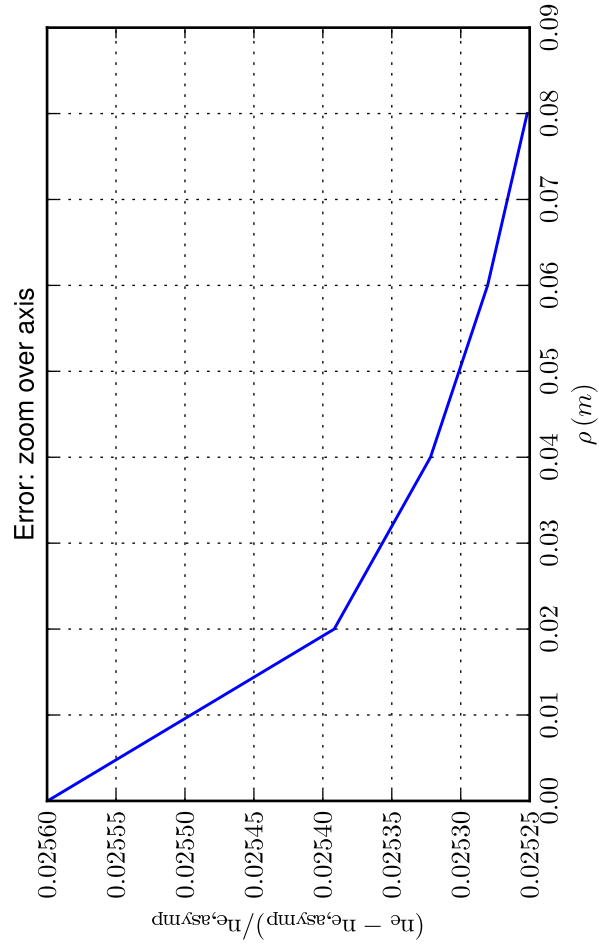
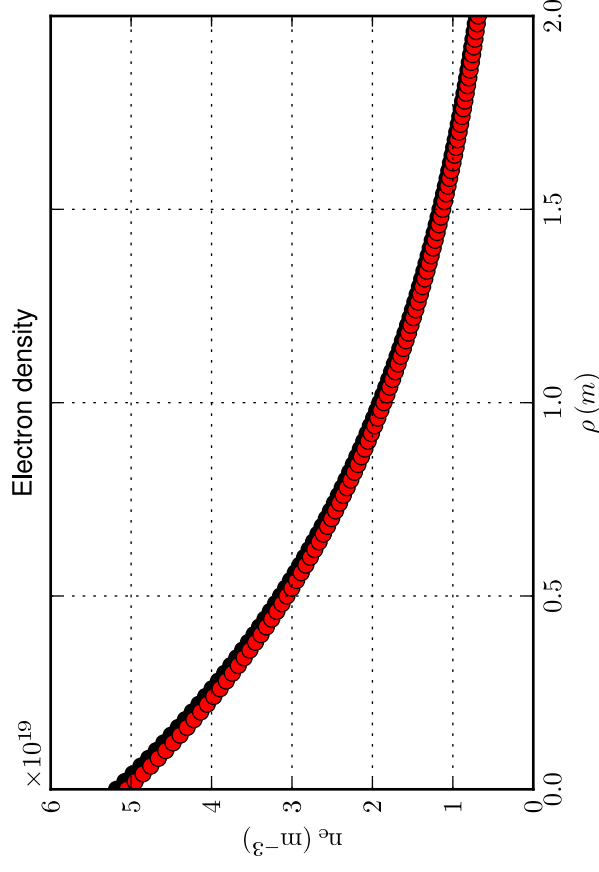
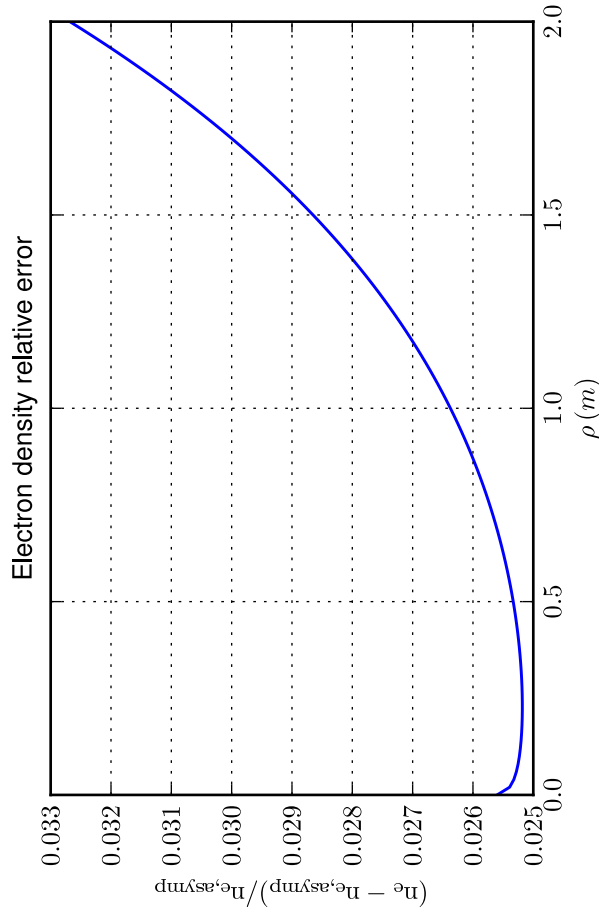
Particle conservation [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with asymptotic solution (electrons and ions); total time and zoom over time



Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Time sampling: total simulation time/10

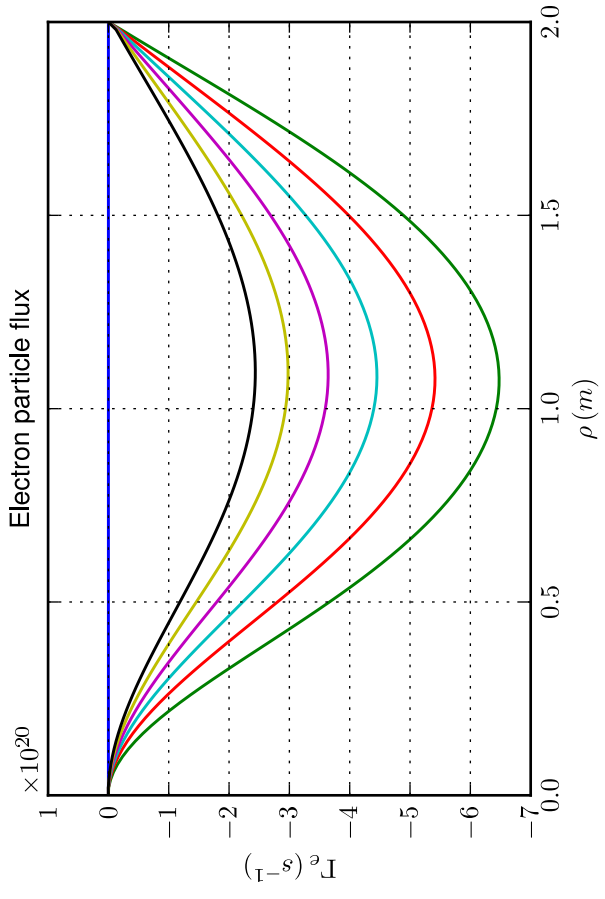
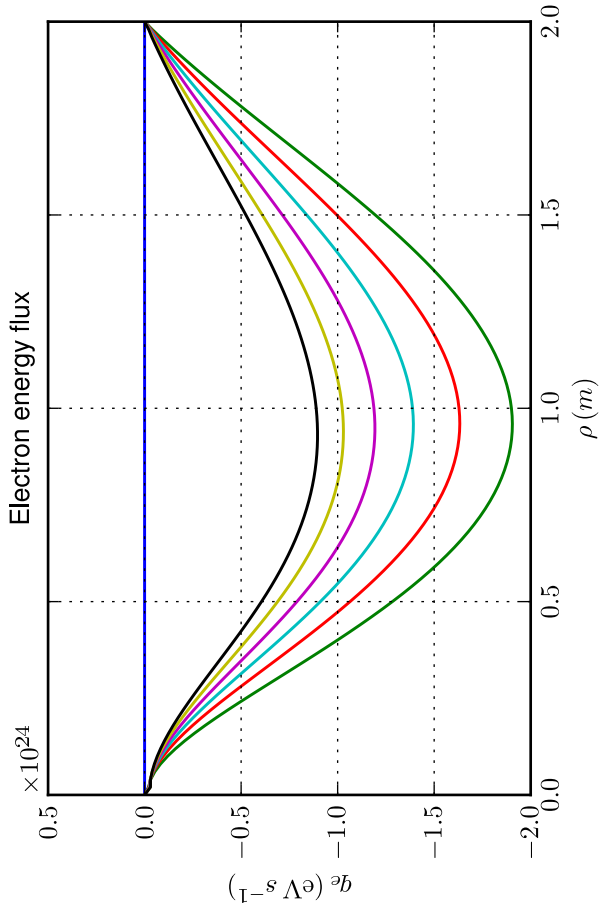
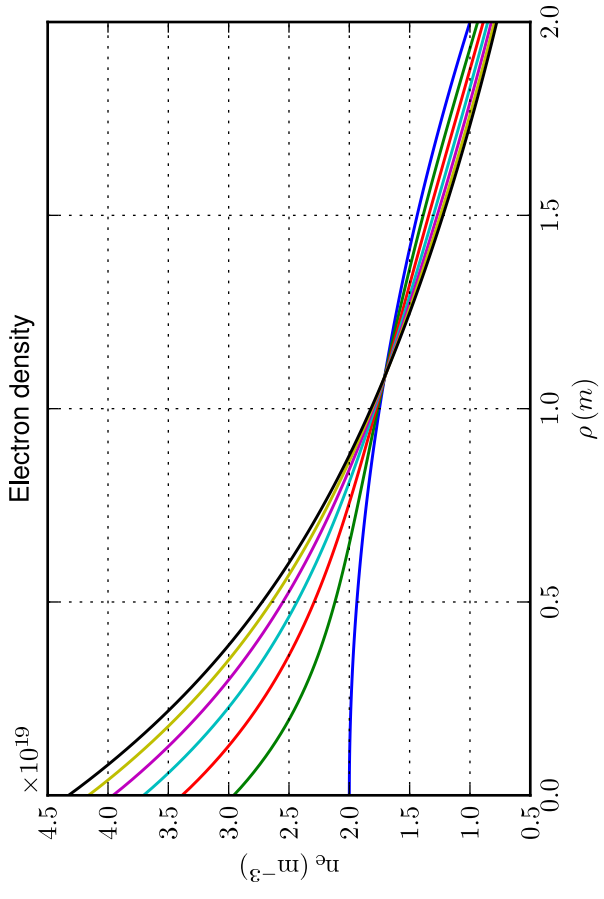
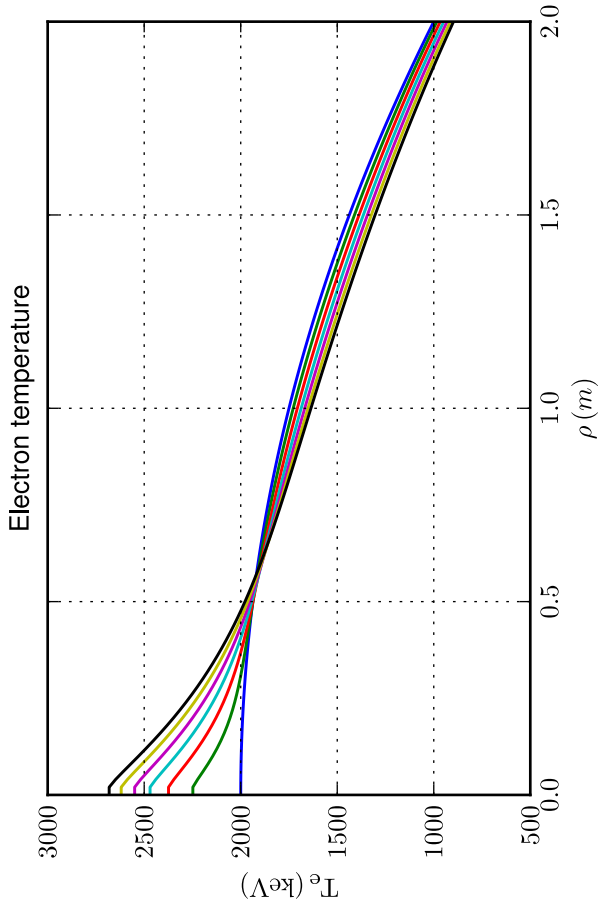


Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]
 Comparison with asymptotic solution



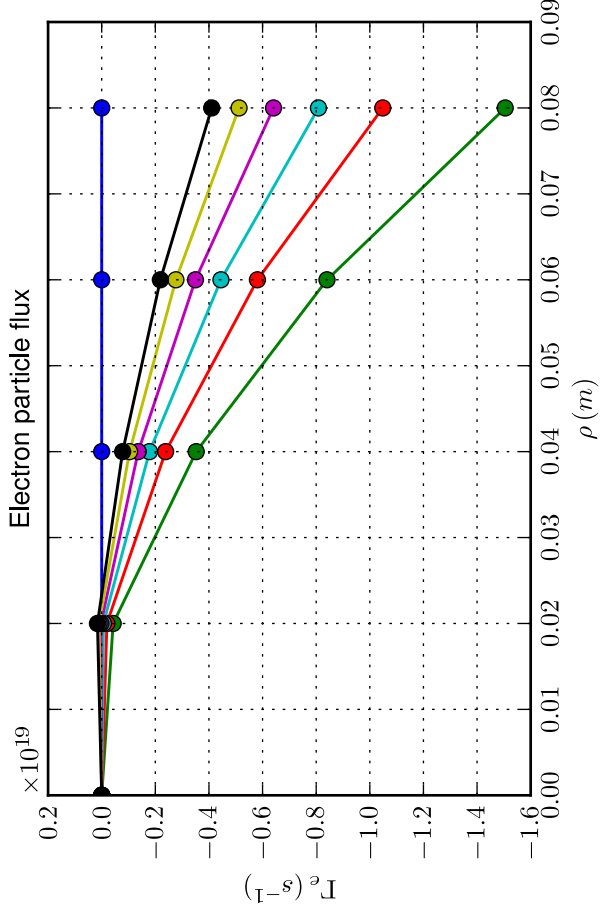
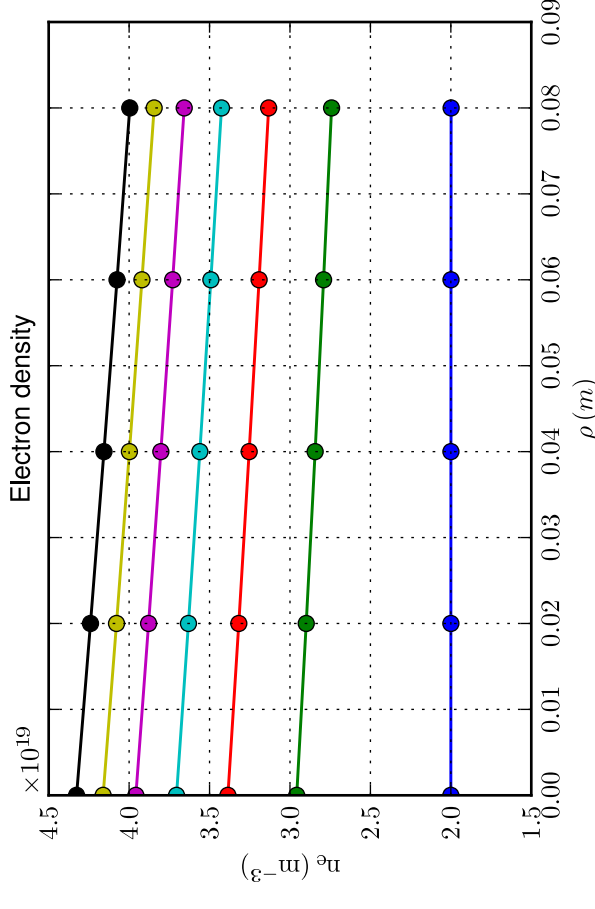
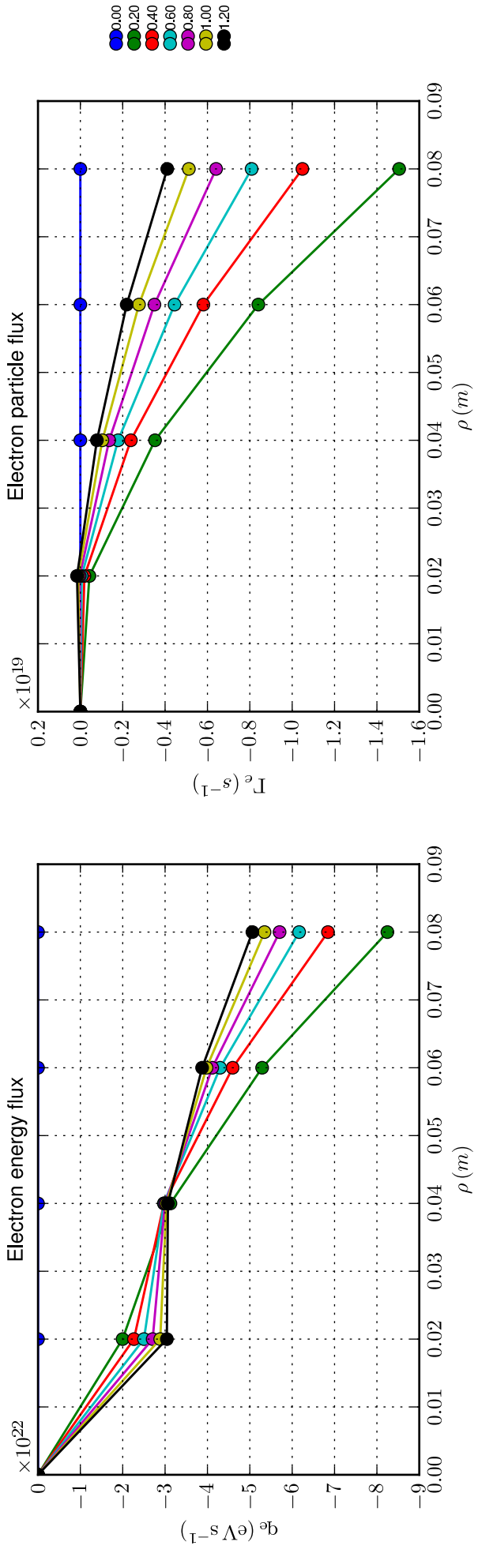
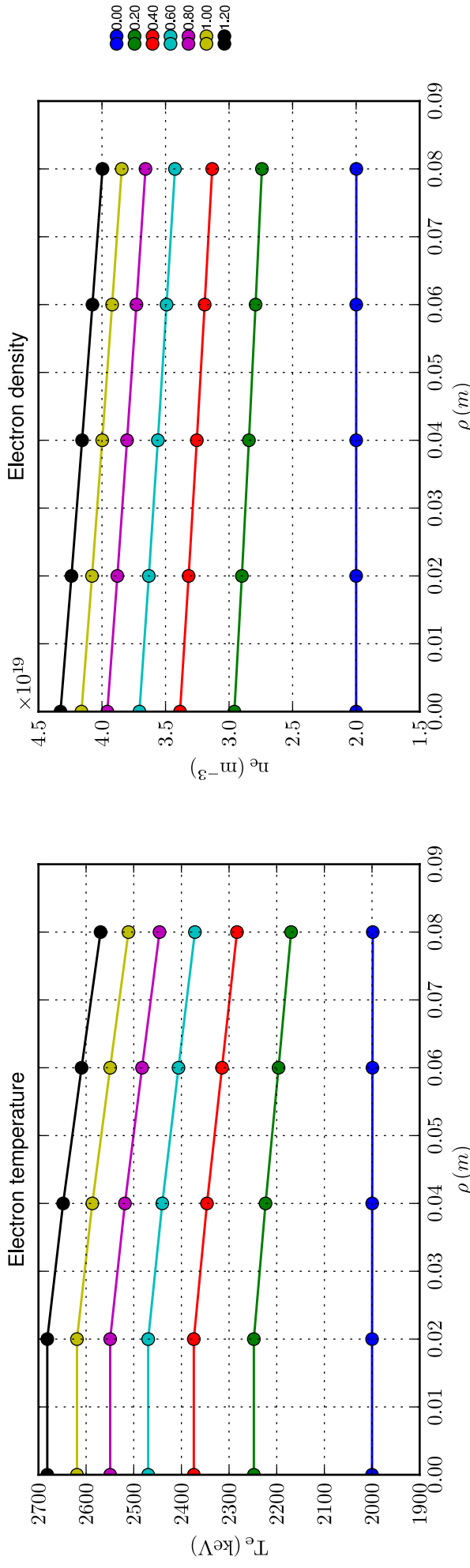
Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

Time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (Va/D)| = 1.33 \text{ s}$

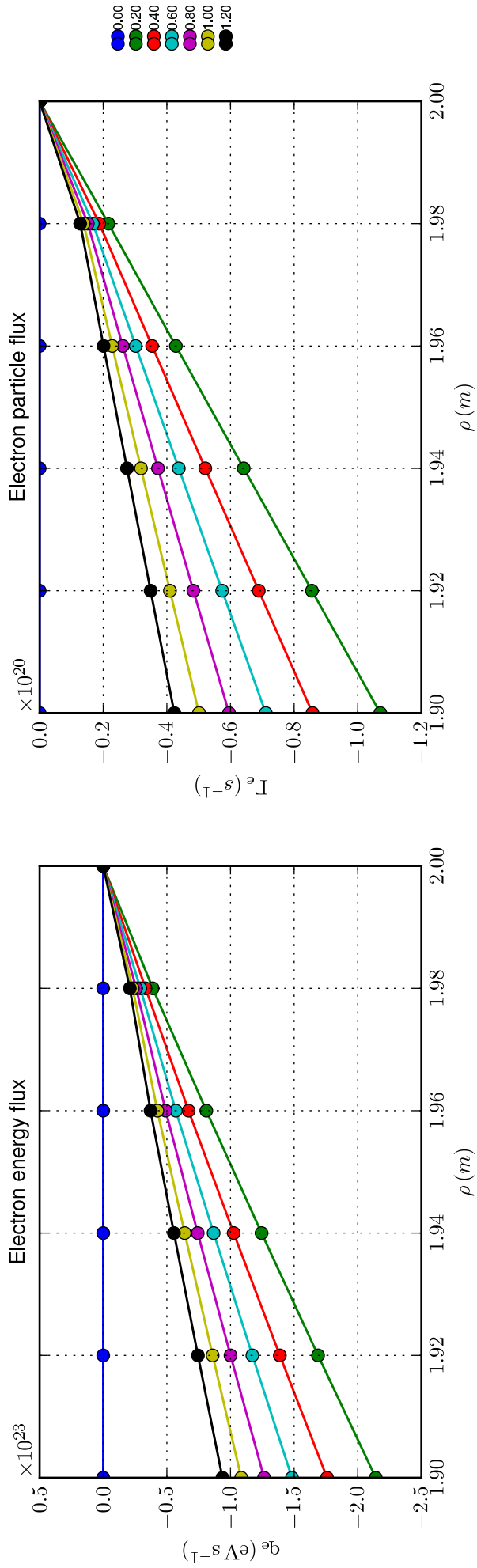
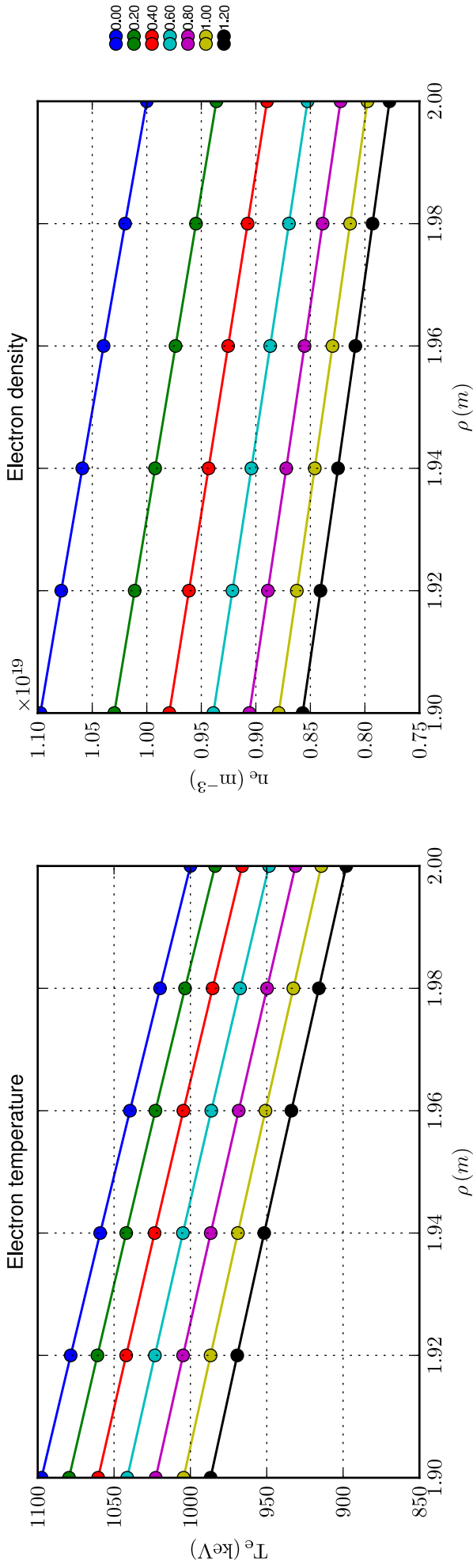


- 0.00
- 0.20
- 0.40
- 0.60
- 0.80
- 1.00
- 1.20

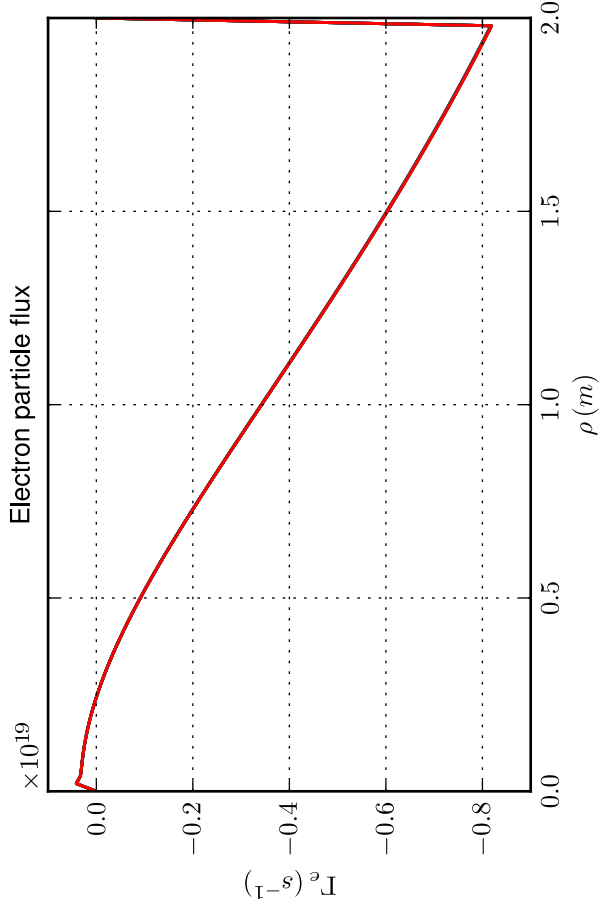
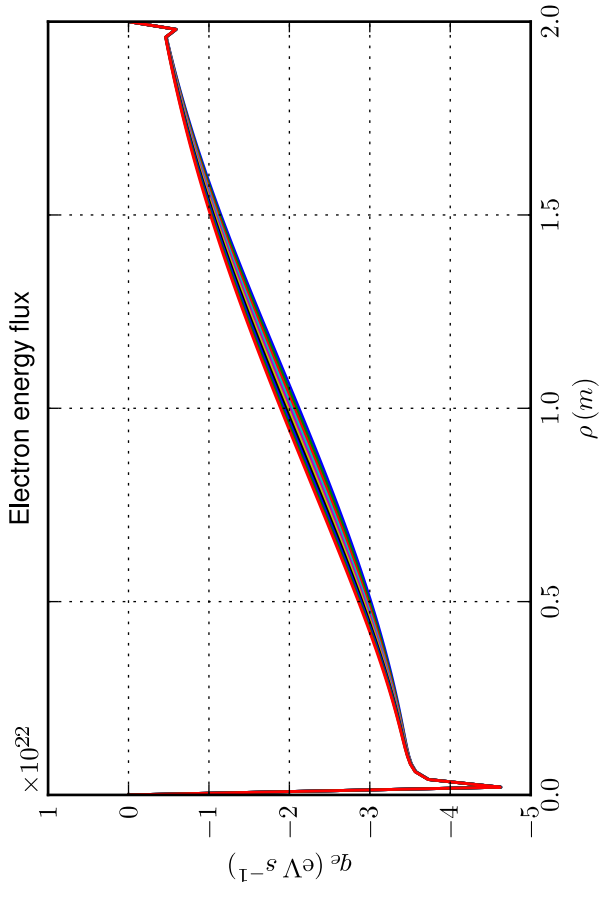
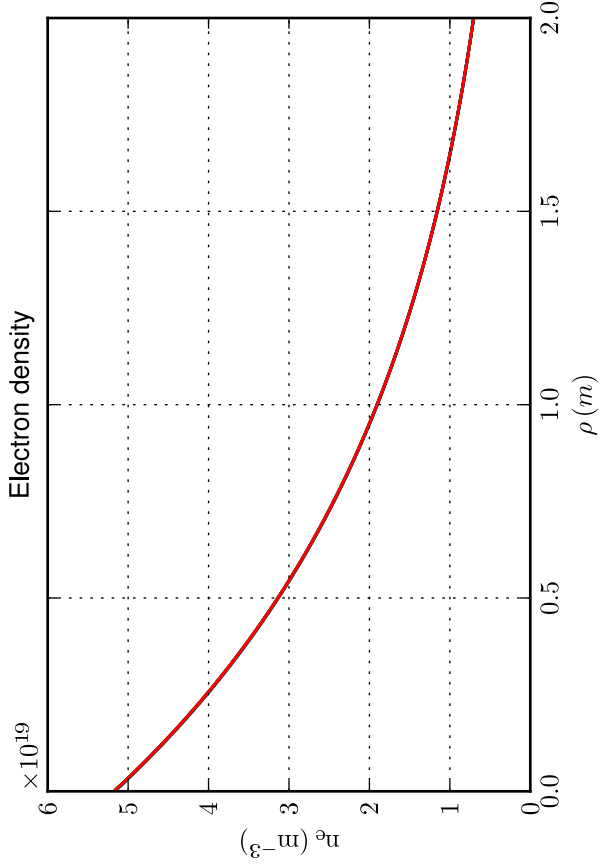
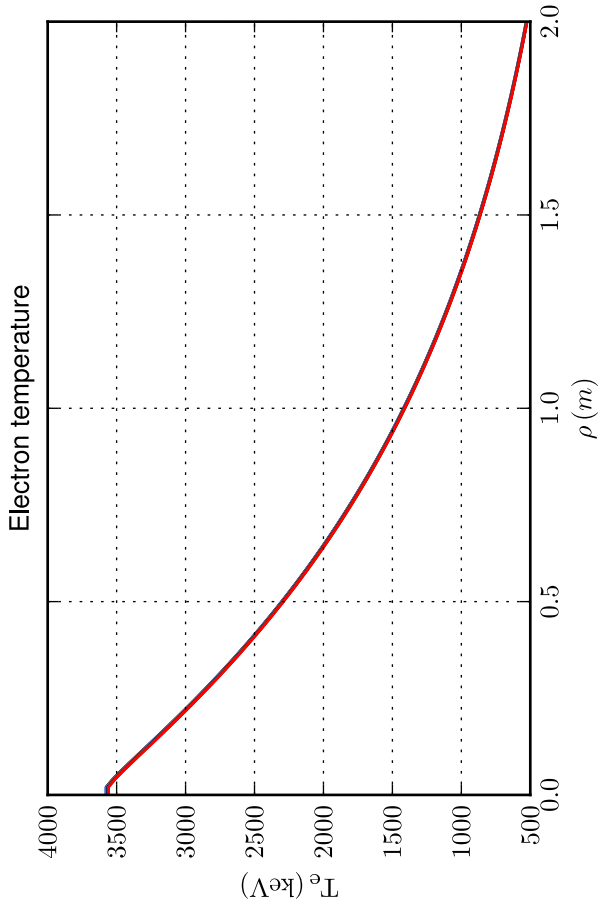
Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]
 Spatial zoom over magnetic axis; time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (Va/D)| = 1.33 \text{ s}$



Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]
 Spatial zoom over edge; time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (Va/D)| = 1.33 \text{ s}$

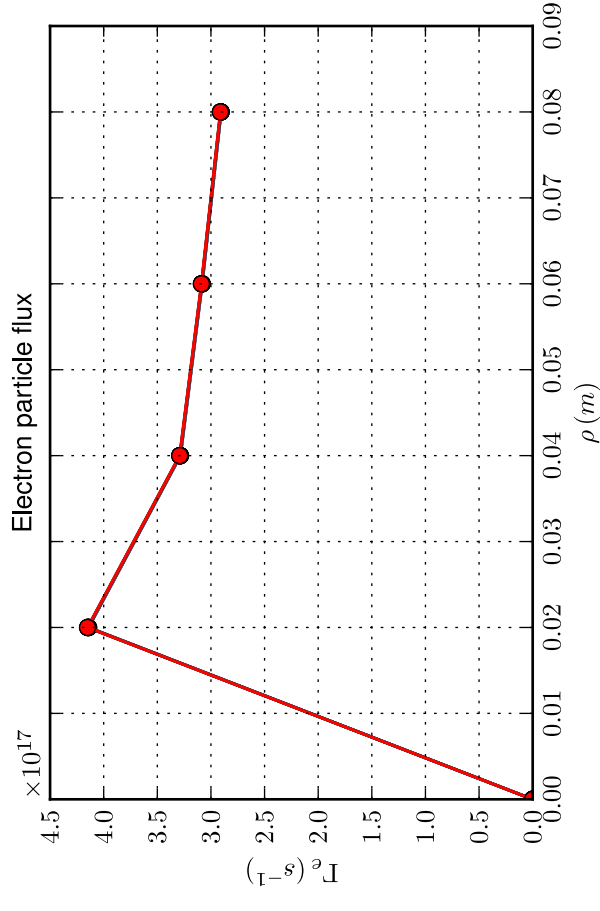
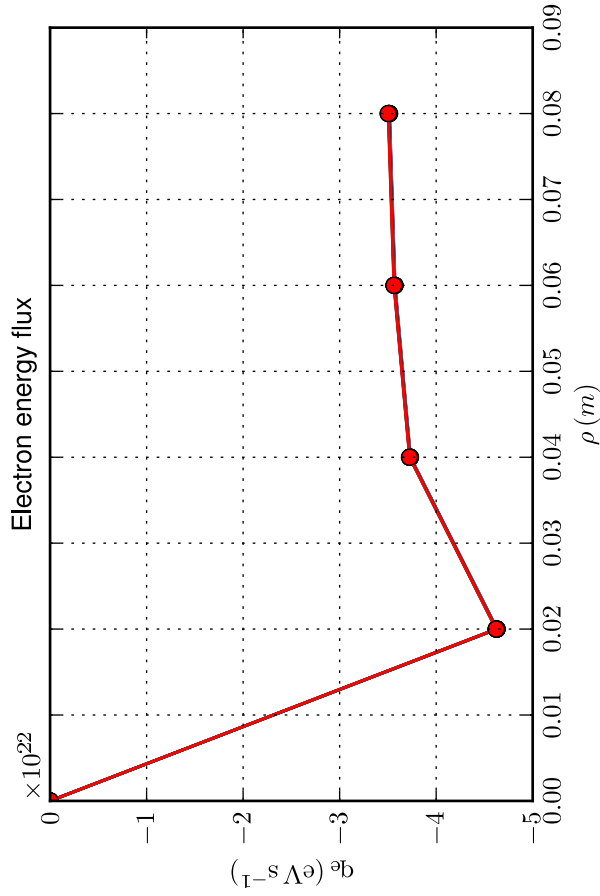
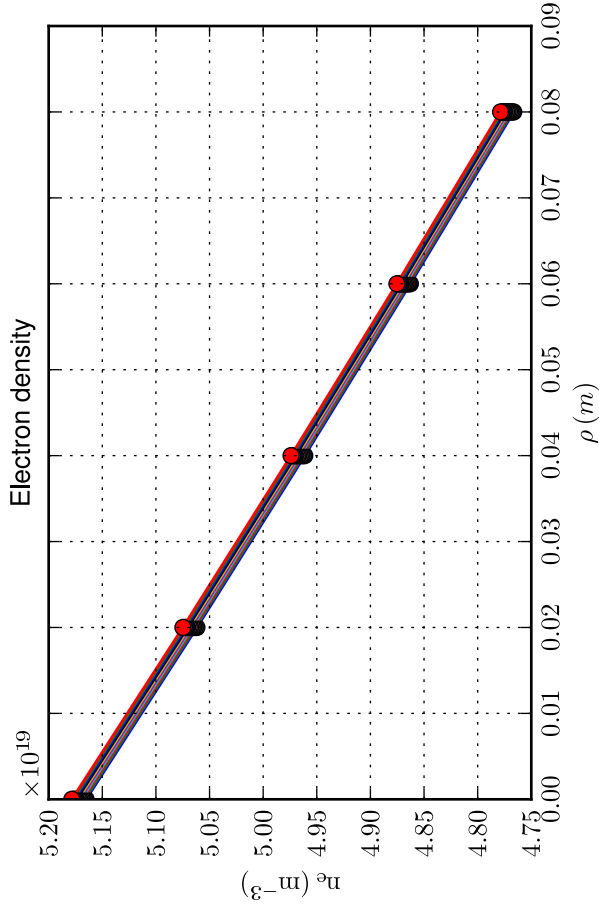
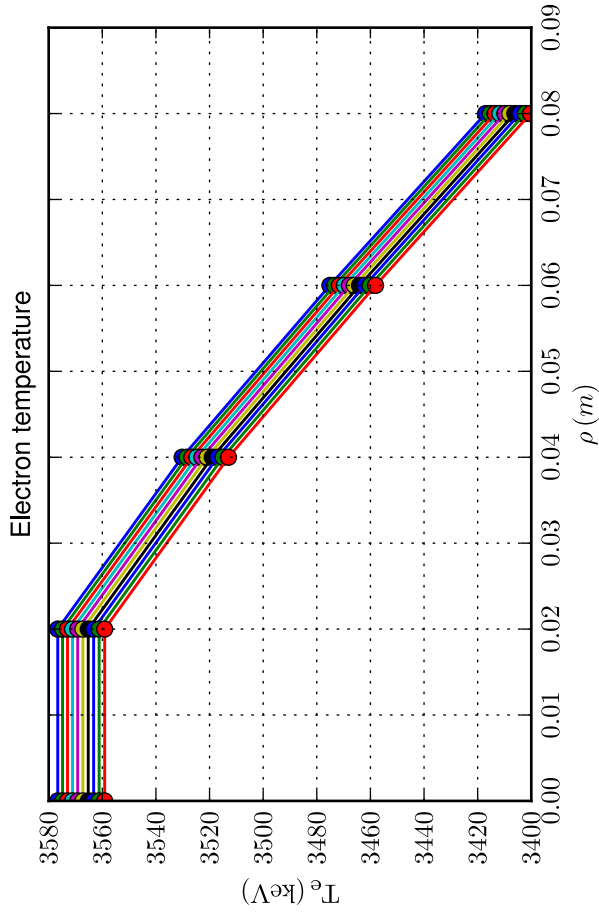


Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Time sampling: last 10 time slices



Legend for time slices:
 18.00 (blue)
 18.20 (green)
 18.40 (red)
 18.60 (cyan)
 18.80 (magenta)
 19.00 (yellow)
 19.20 (black)
 19.40 (dark blue)
 19.60 (dark green)
 19.80 (dark red)

Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Spatial zoom over magnetic axis; time sampling: last 10 time slices



Profiles [Case: 1.1.5.h, Solver: 3, $D = 0.1 \text{ m}^2/\text{s}$, $v = -0.10 \text{ m/s}$, $\Delta t = 20.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Spatial zoom over edge; time sampling: last 10 time slices

