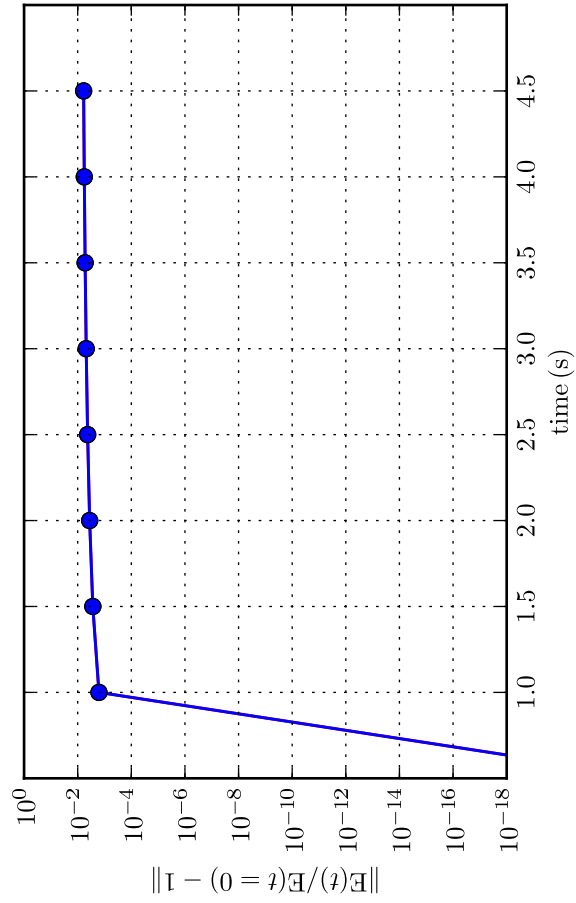
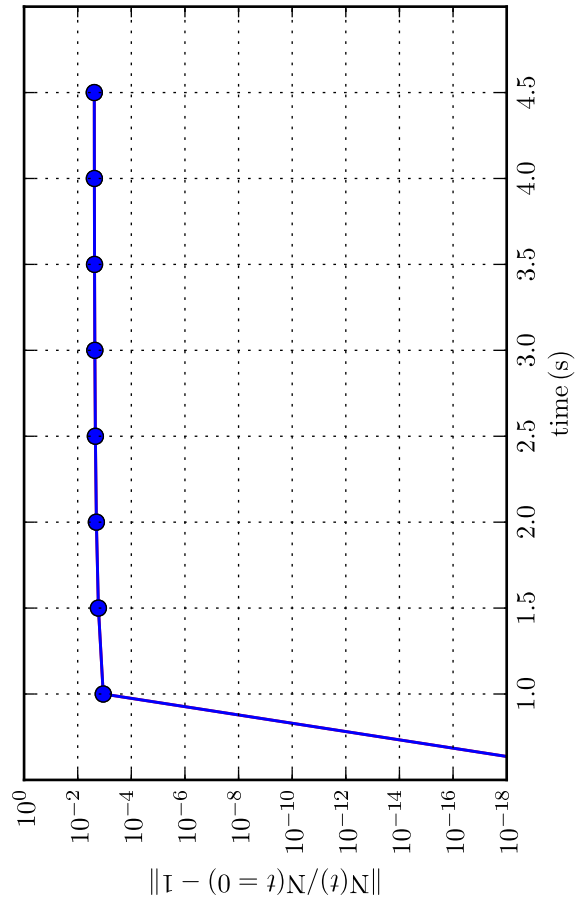
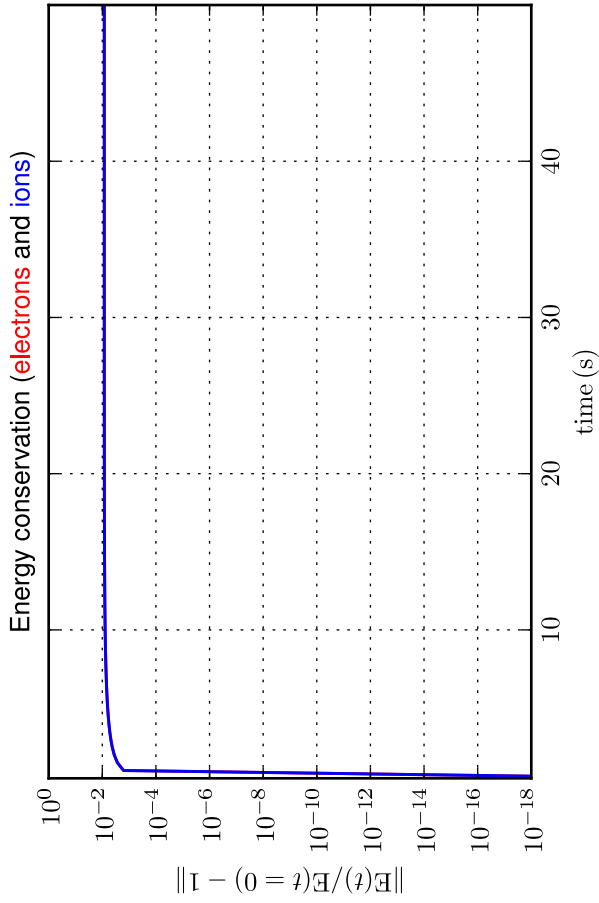
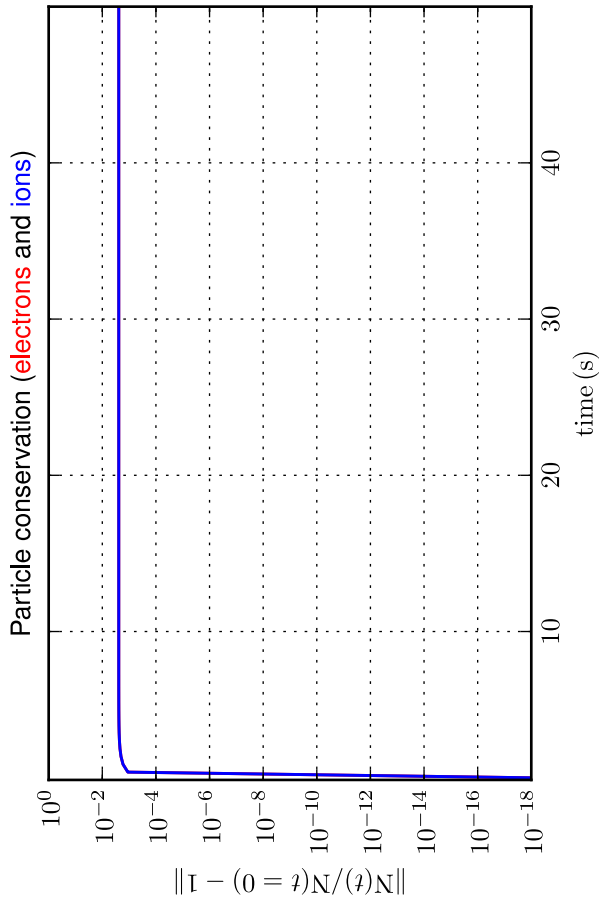
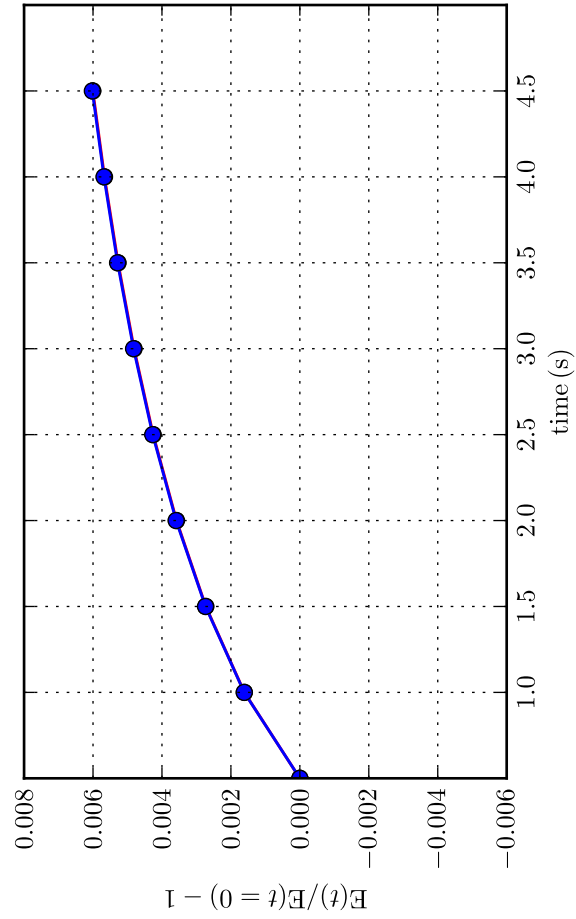
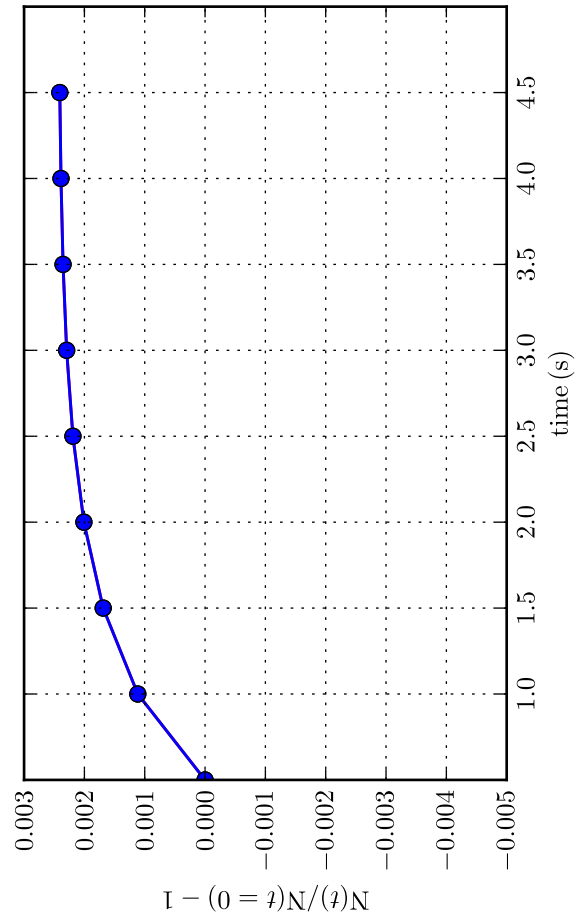
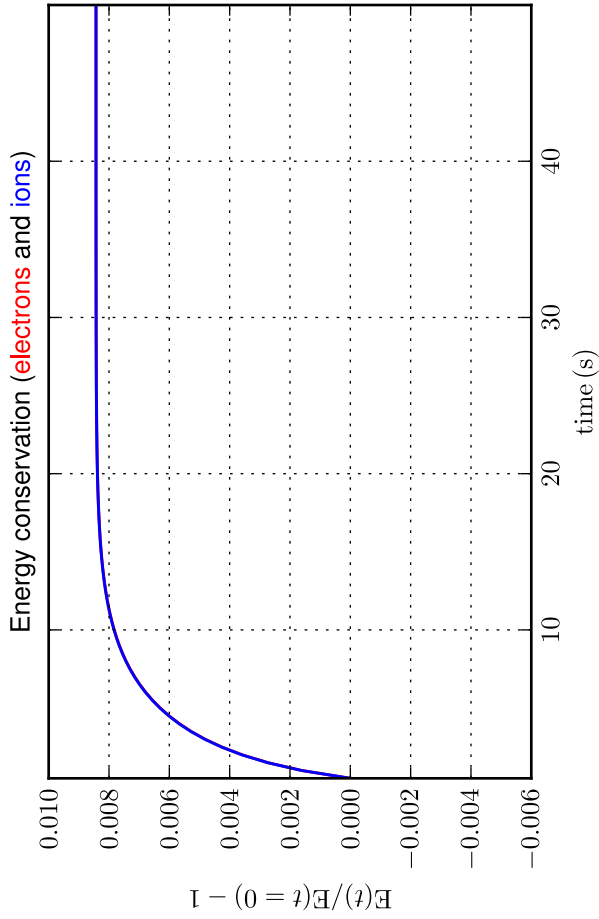
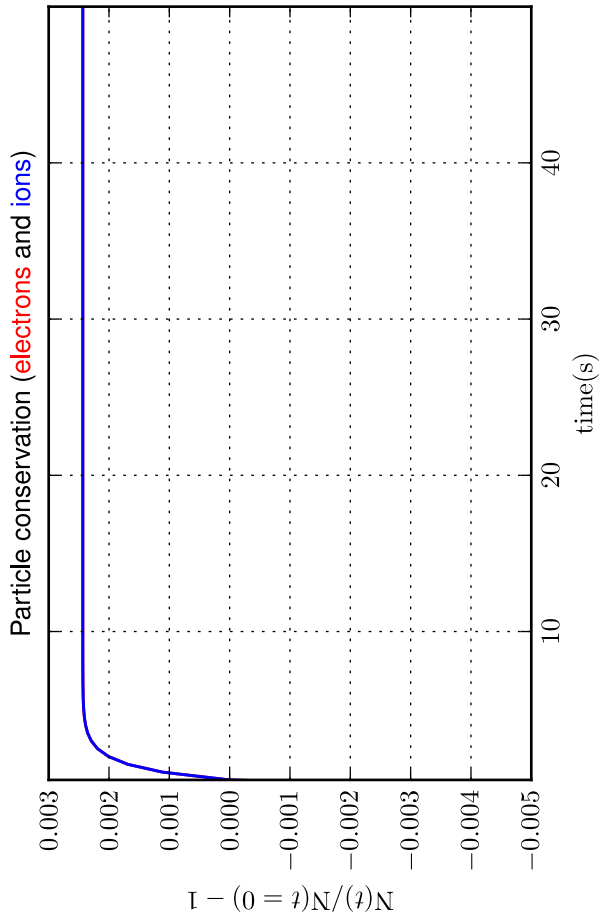


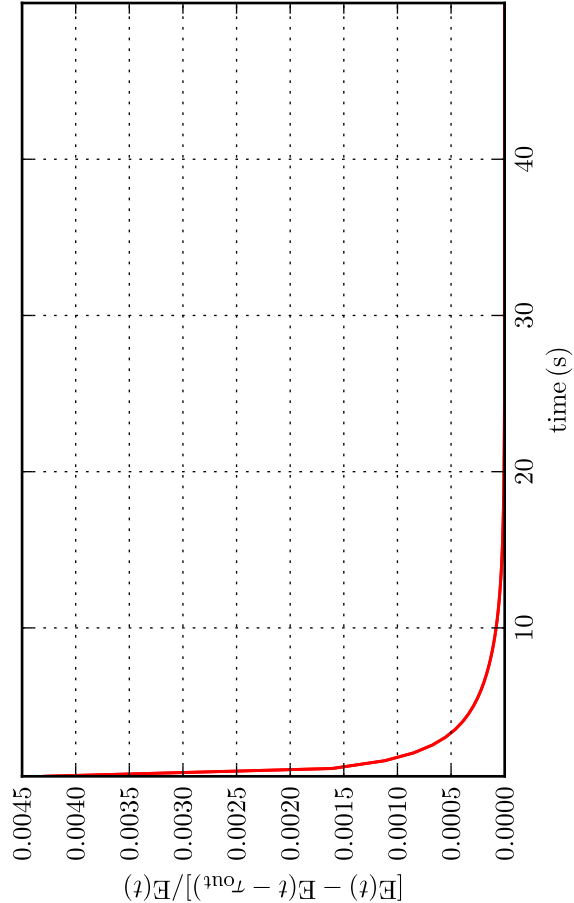
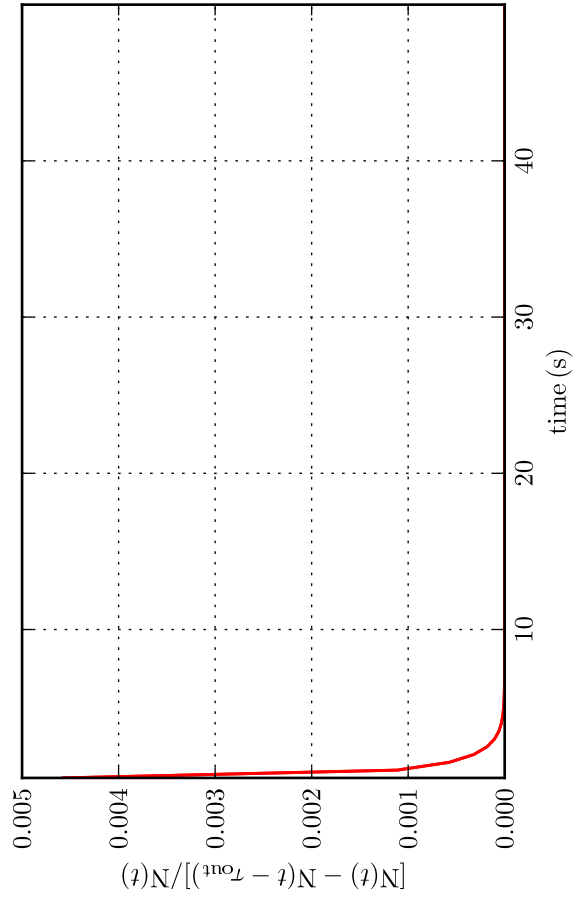
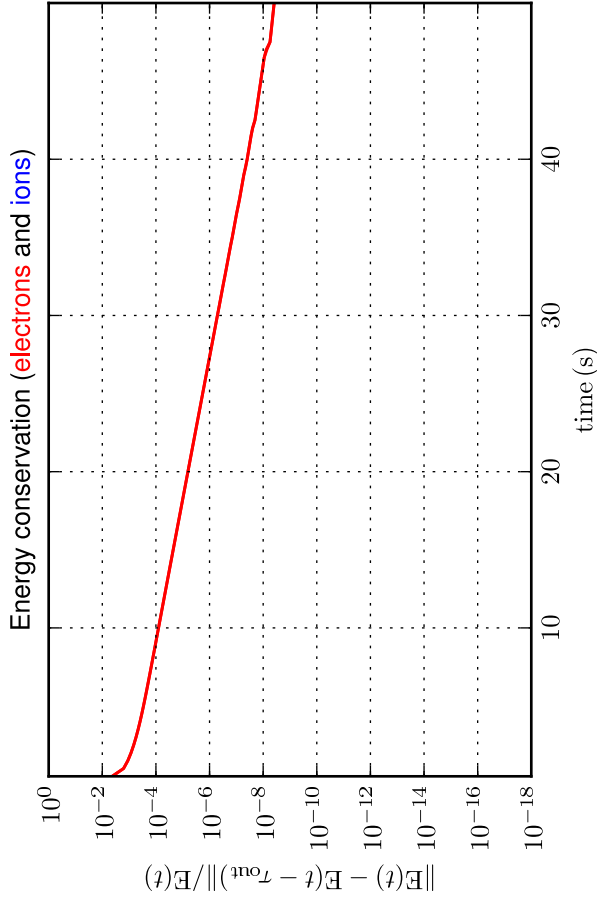
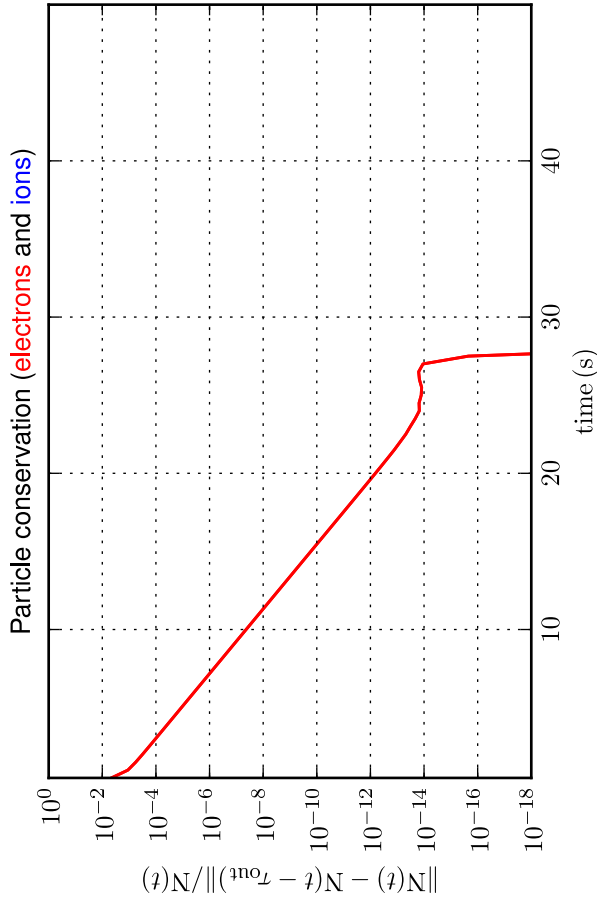
Part. & Energy conservation [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with initial solution - log scale; total time and zoom over time



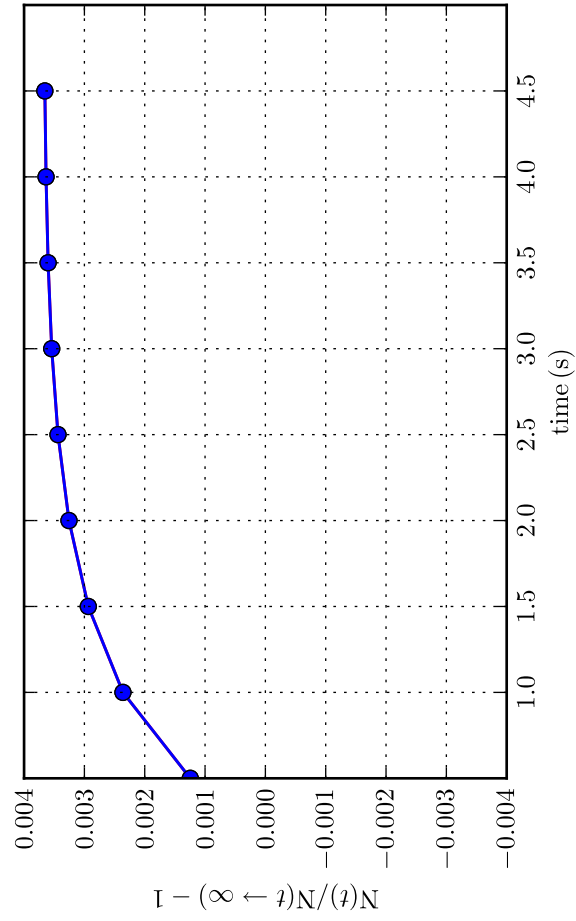
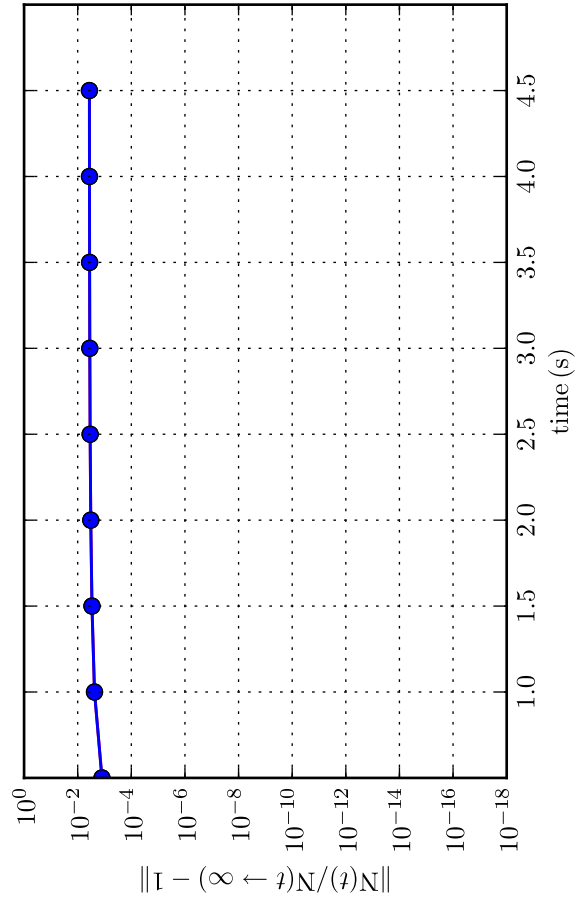
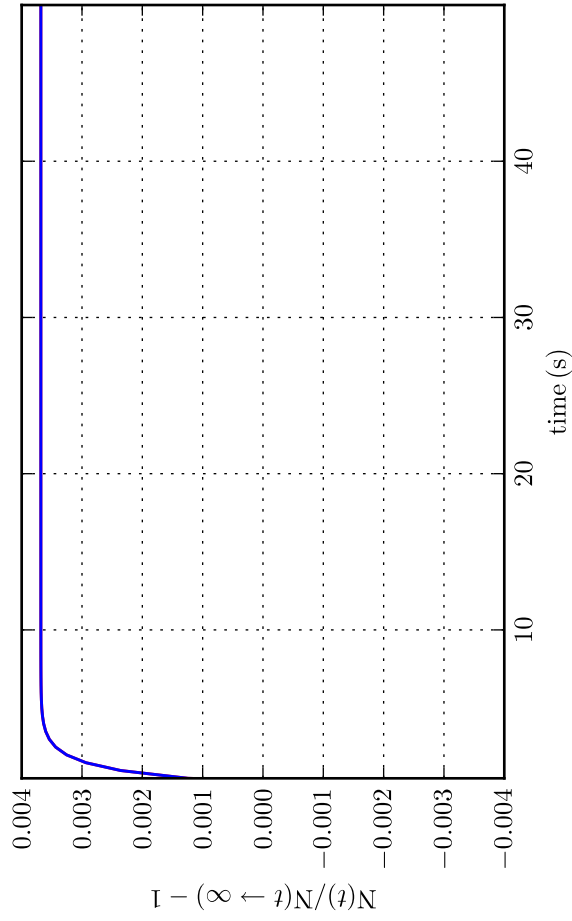
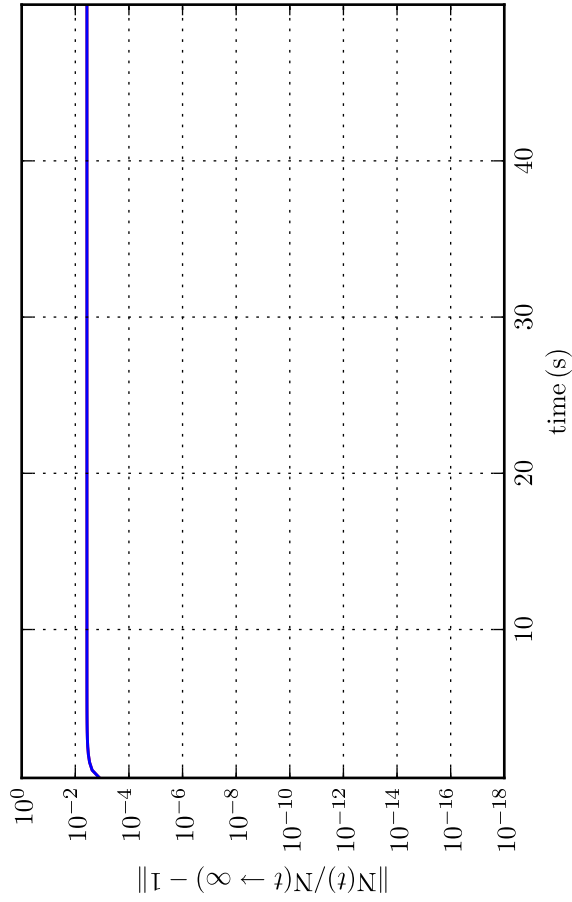
Part. & Energy conservation [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
Comparison with initial solution - linear scale; total time and zoom over time



Part. & Energy conservation [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with previous time-sampled (τ_{out}) solution - log and linear scales

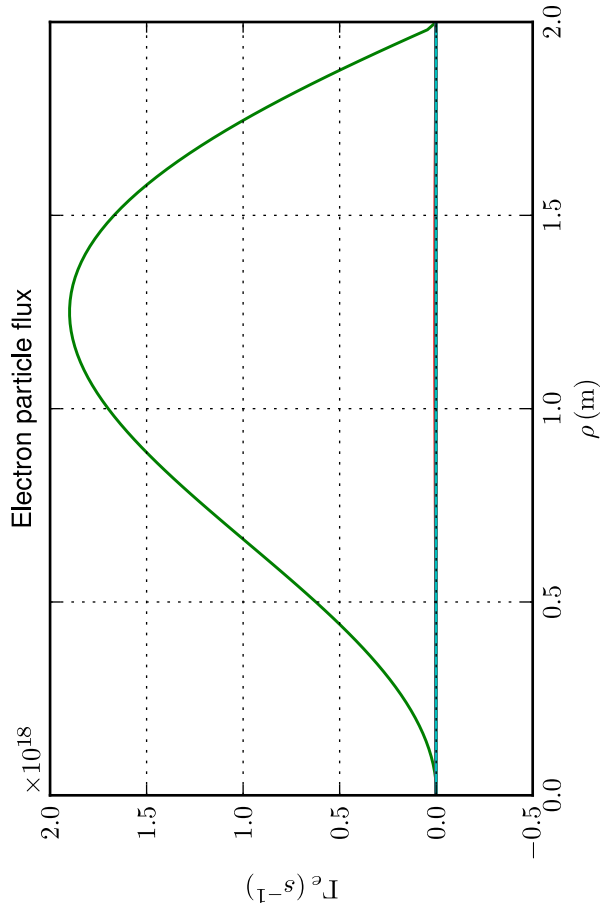
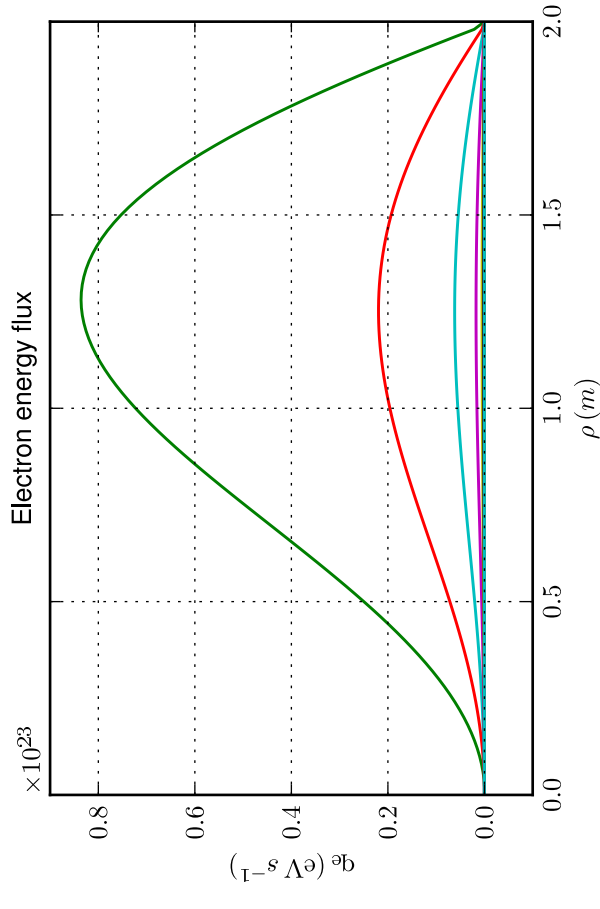
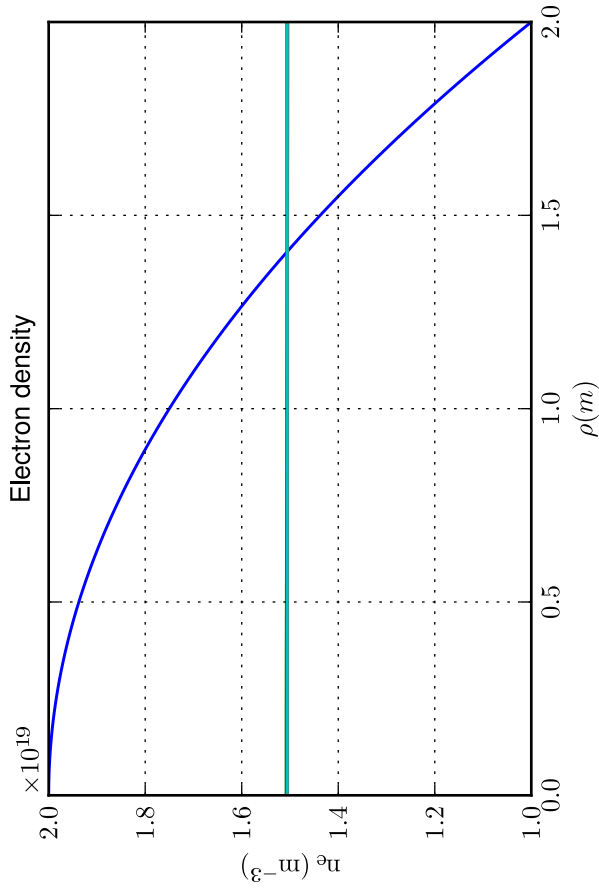
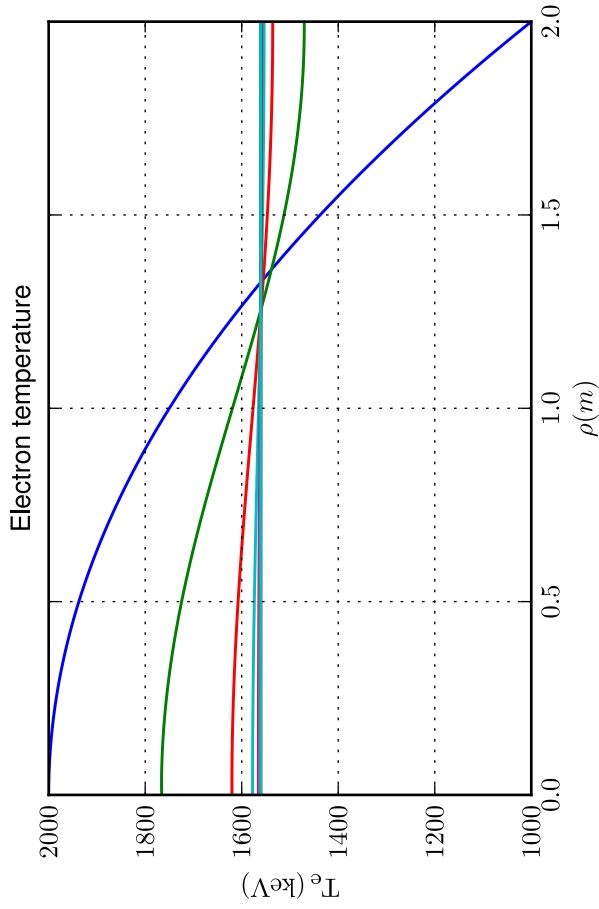


Particle conservation [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_p = 101$]
 Comparison with asymptotic solution (electrons and ions); total time and zoom over time



Profiles [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

Time sampling: total simulation time/10

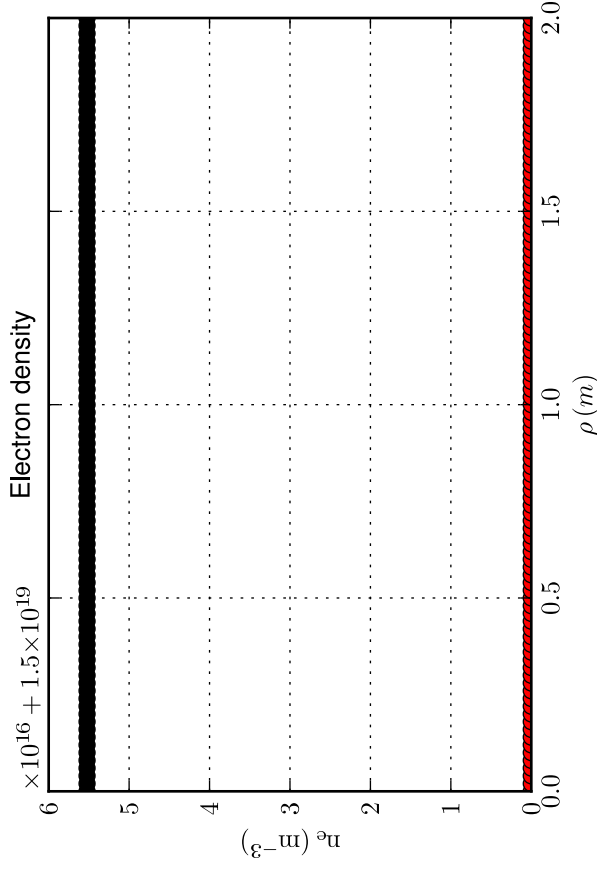
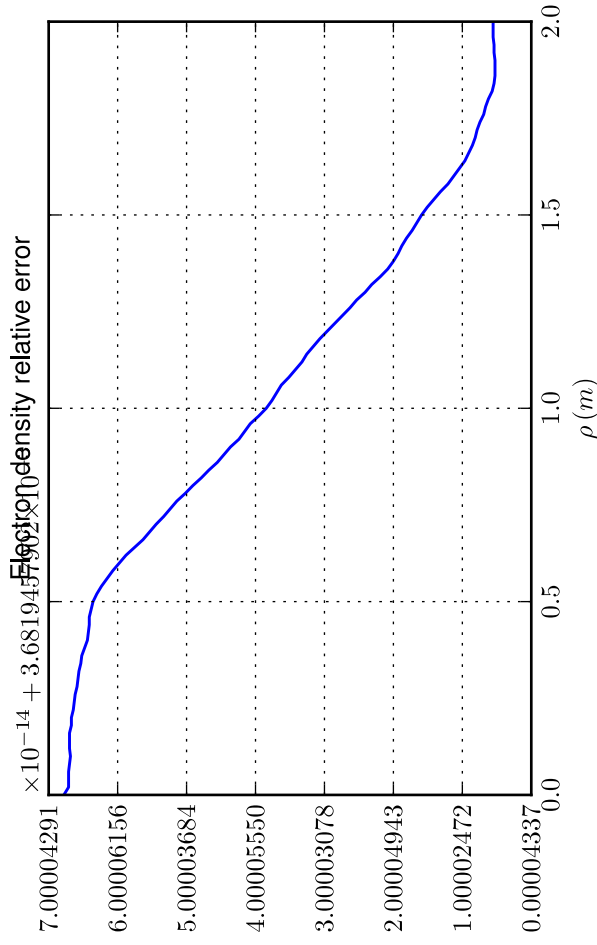


0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00

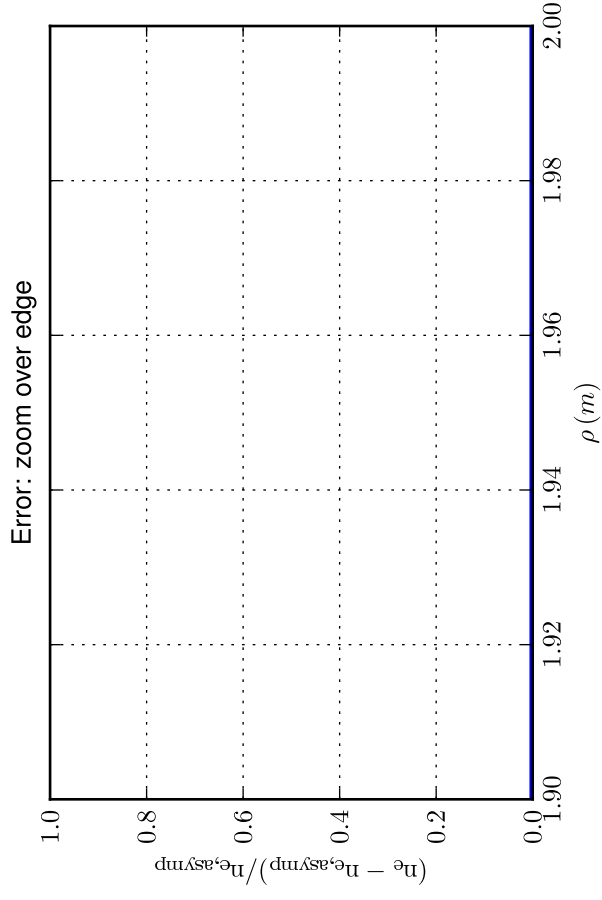
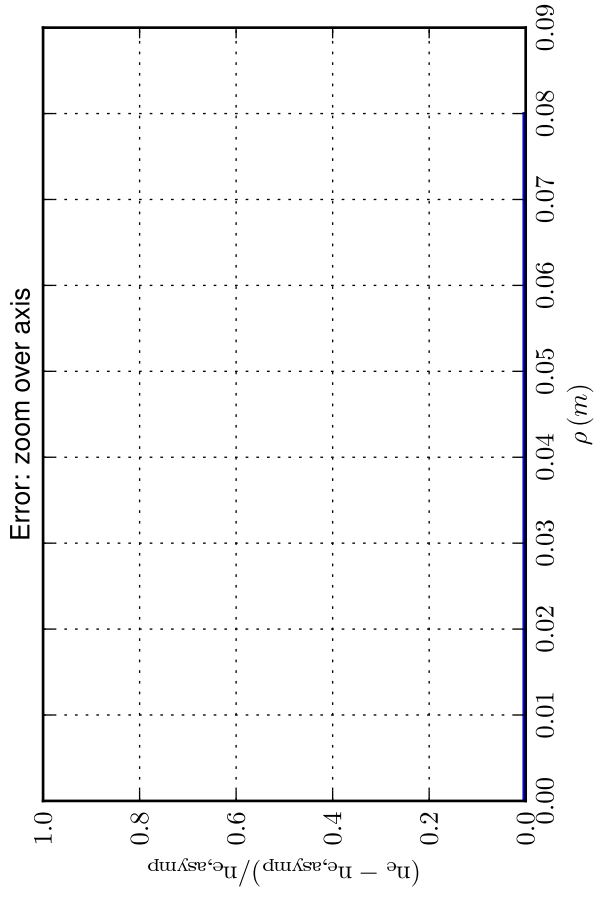
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00

Profiles [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

Comparison with asymptotic solution

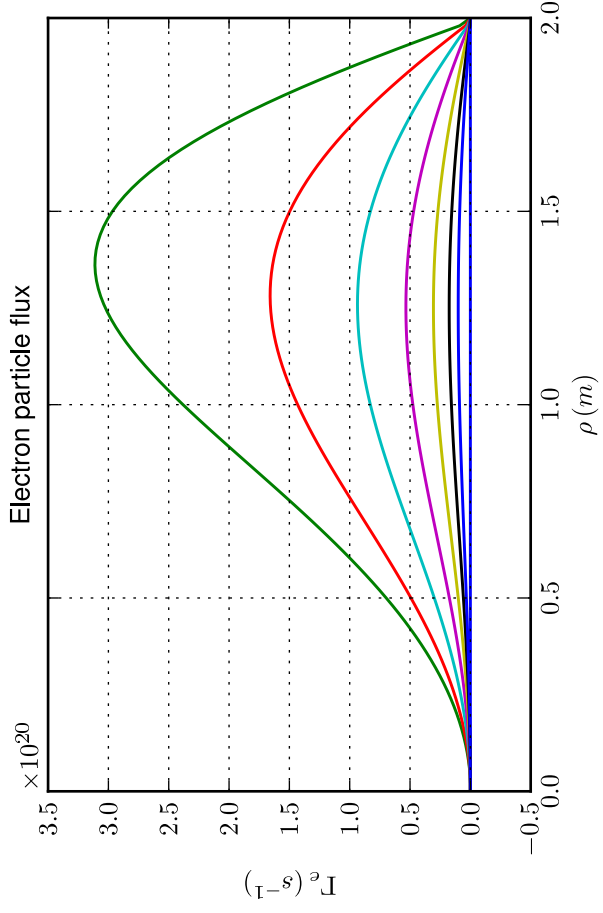
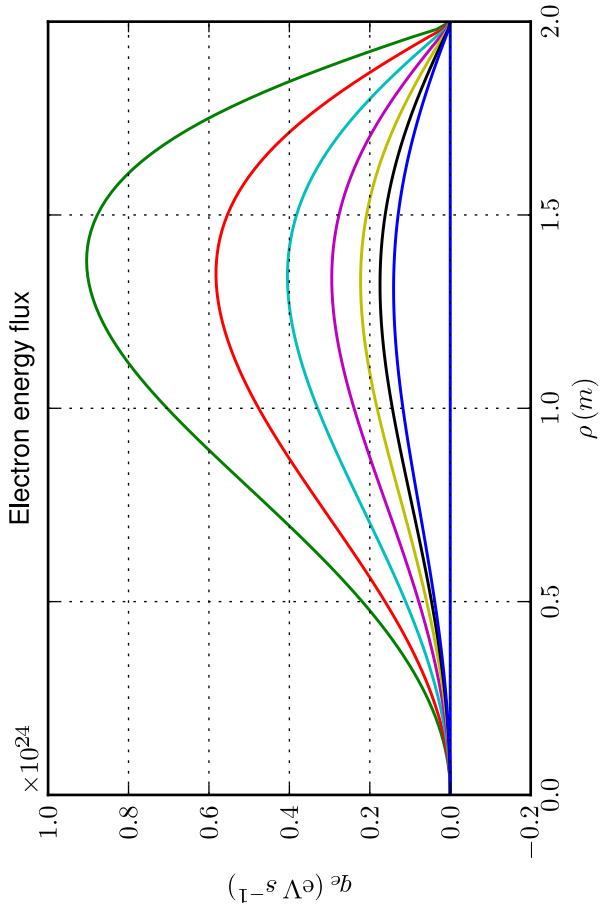
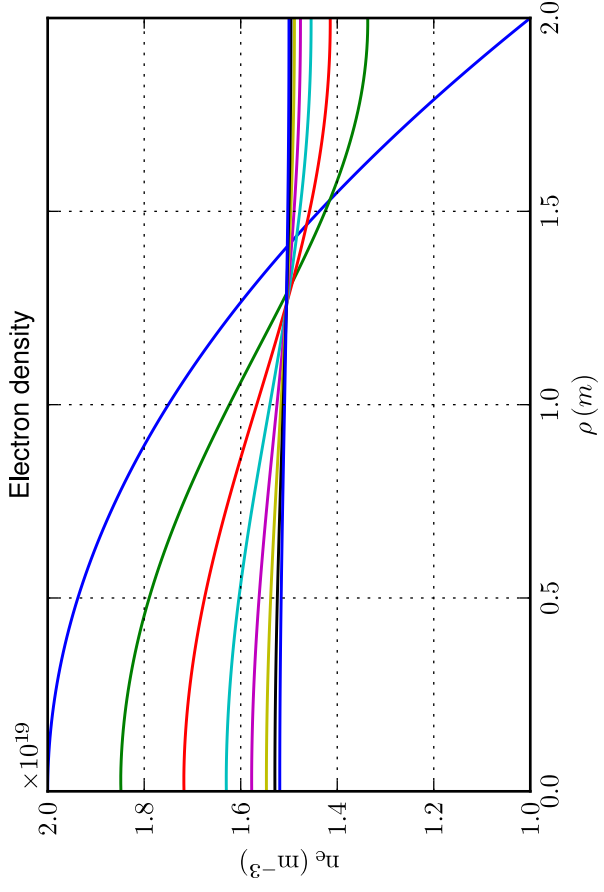
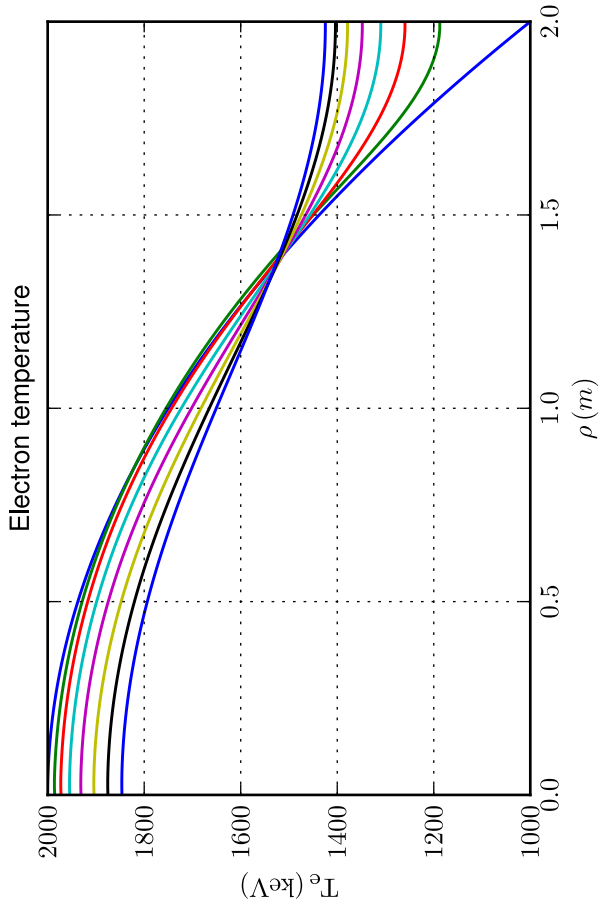


● final calculation
● asymptotic



Profiles [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

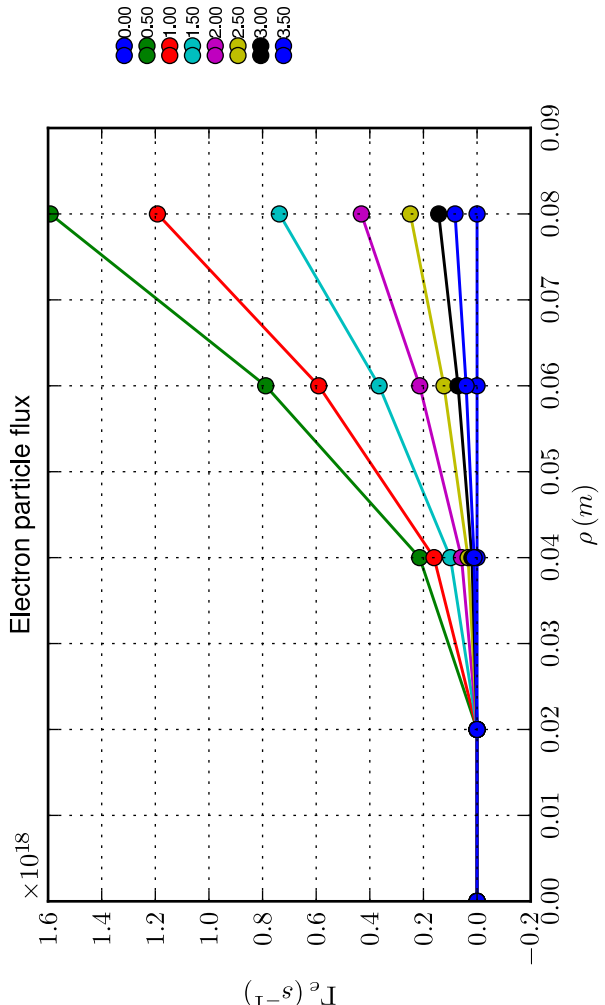
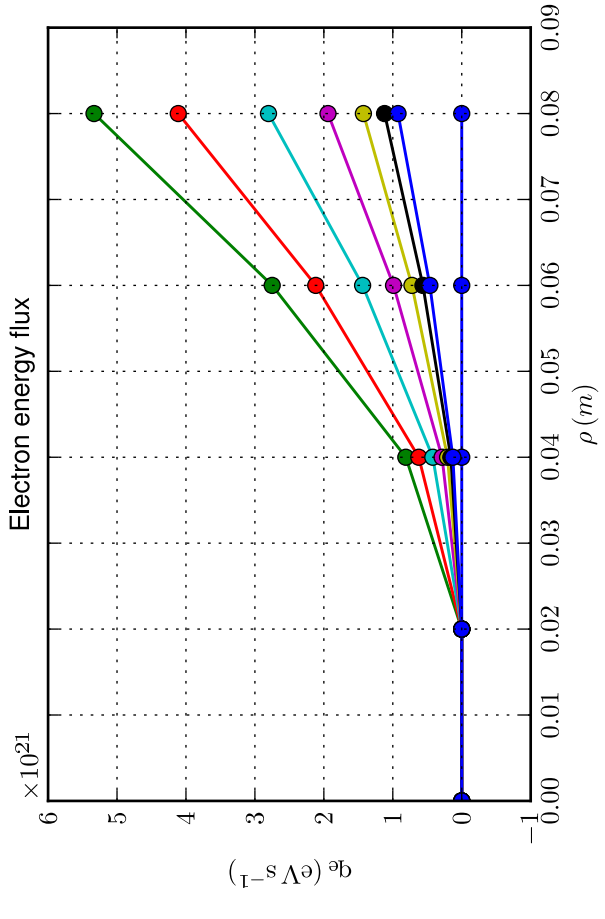
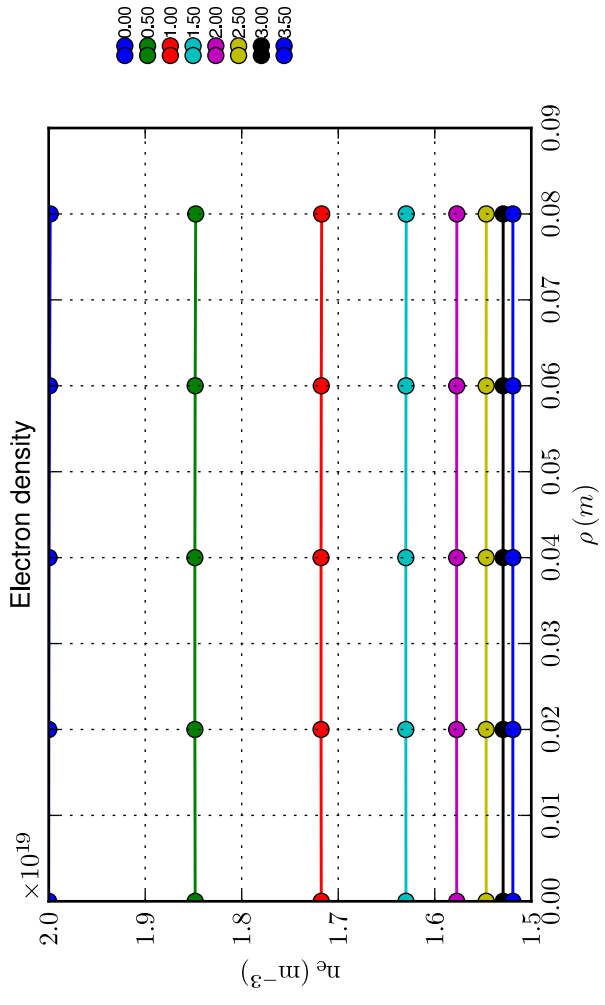
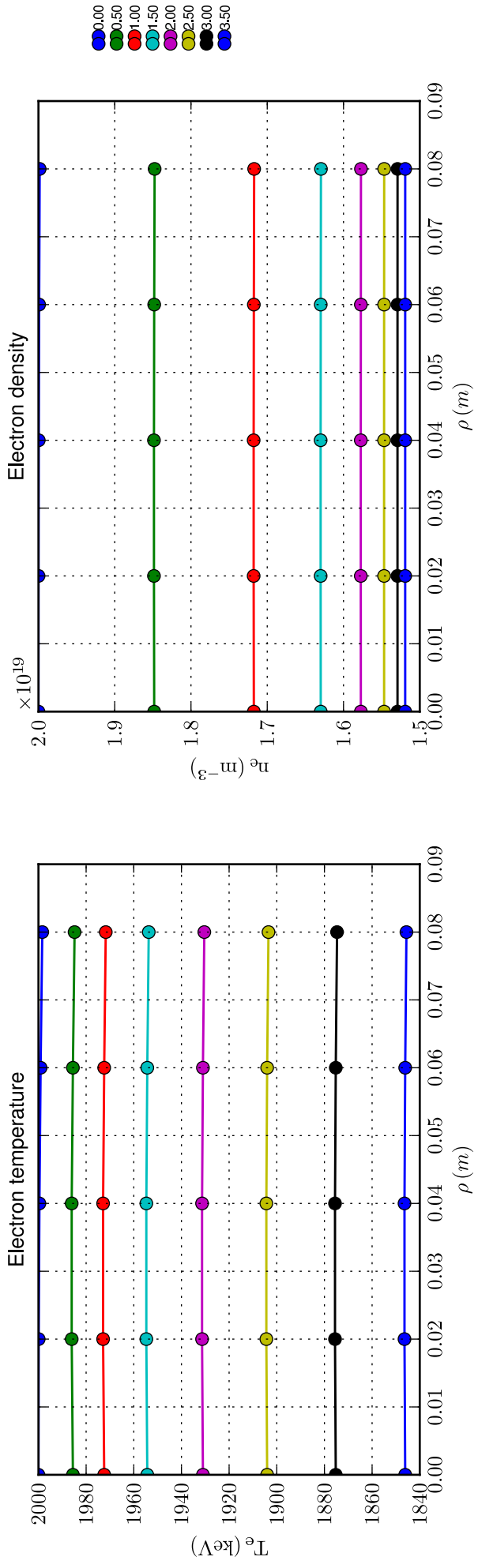
Time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (Va/D)| = 4.00 \text{ s}$



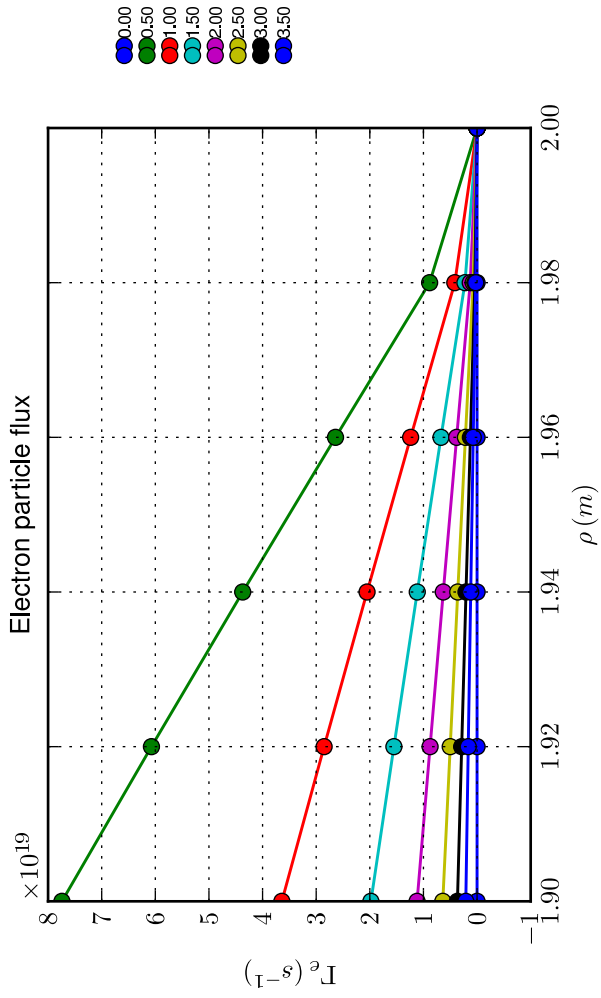
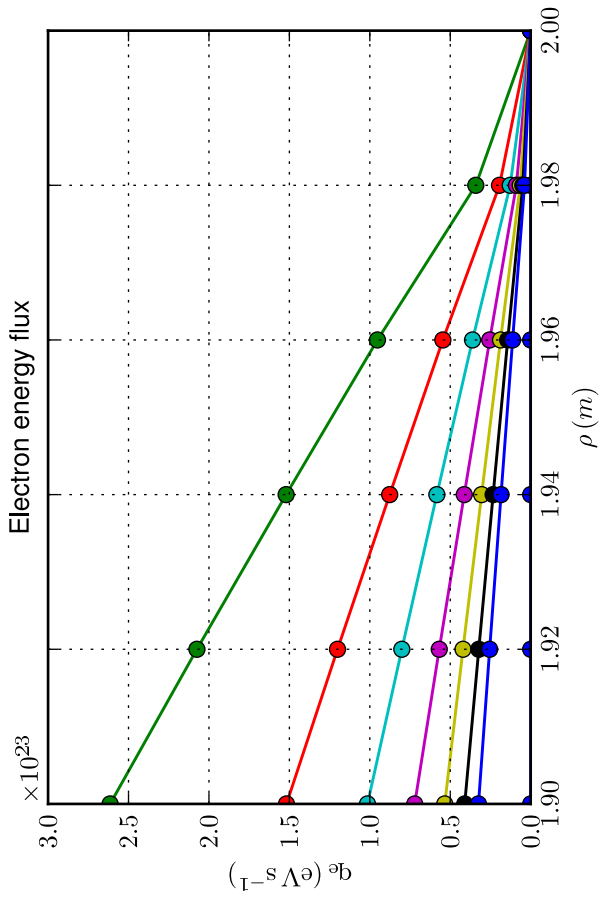
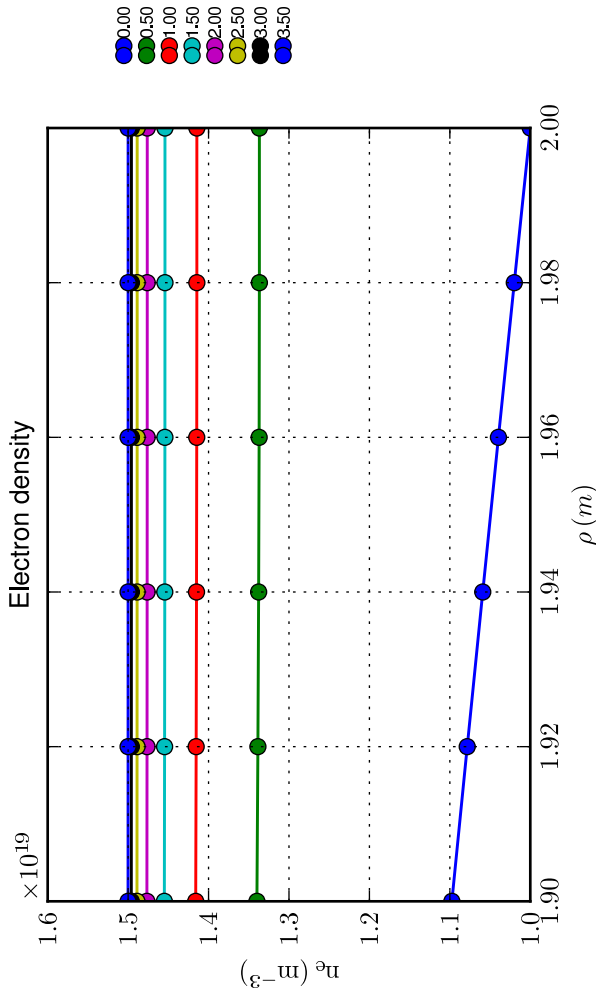
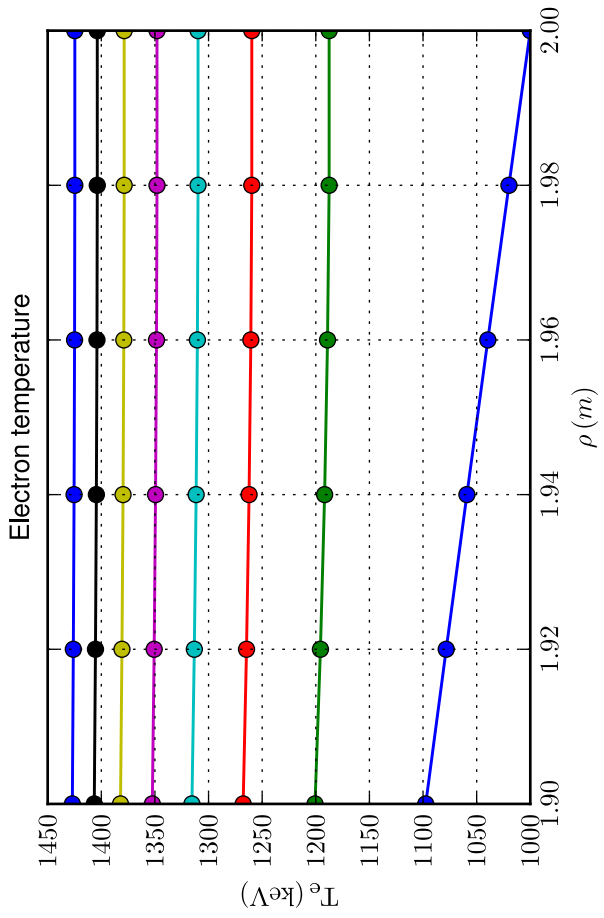
Legend for time slices:

- 0.00
- 0.50
- 1.00
- 1.50
- 2.00
- 2.50
- 3.00
- 3.50

Profiles [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]
 Spatial zoom over magnetic axis; time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (Va/D)| = 4.00 \text{ s}$

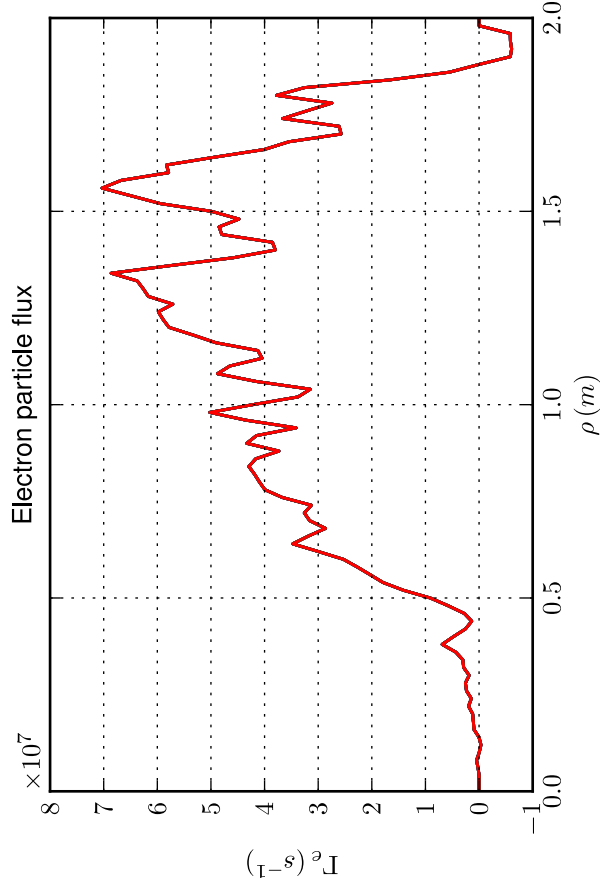
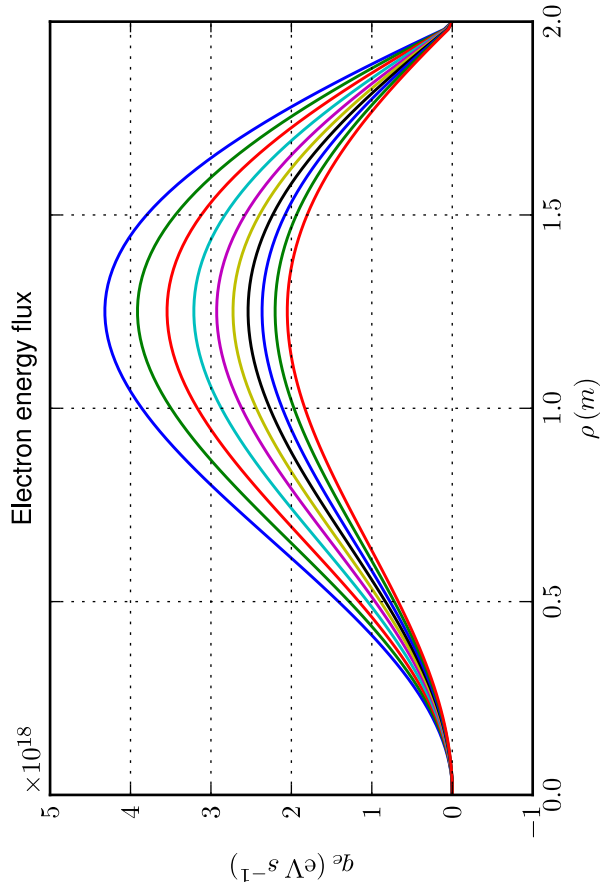
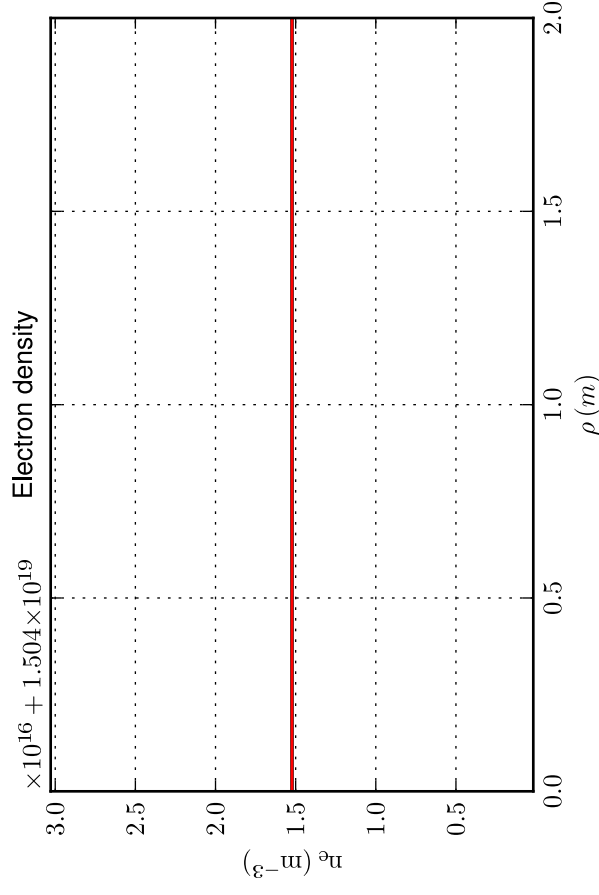
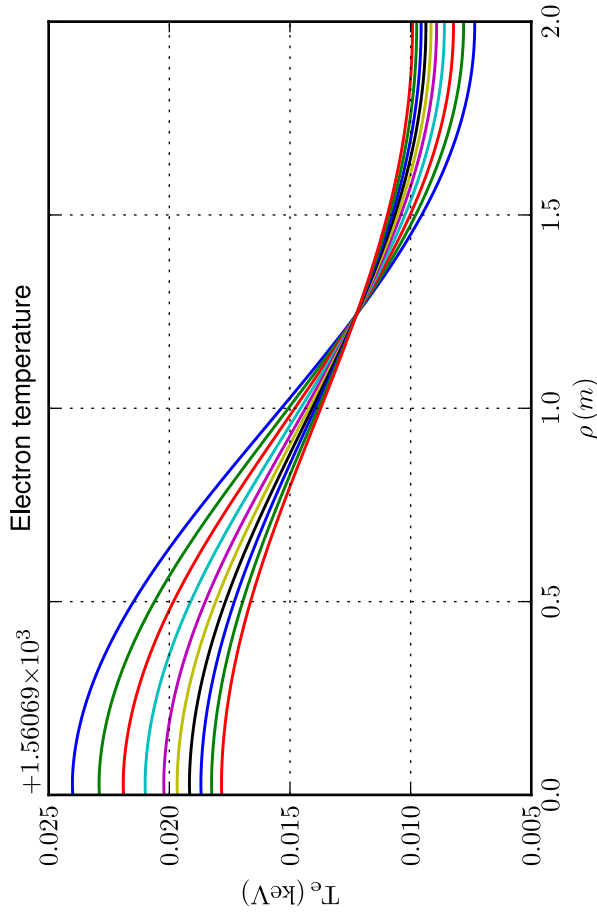


Profiles [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]
 Spatial zoom over edge; time sampling: first 10 time slices or zoom over time $0.1 \times (a^2/D)/|1 - (V_a/D)| = 4.00 \text{ s}$



Profiles [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

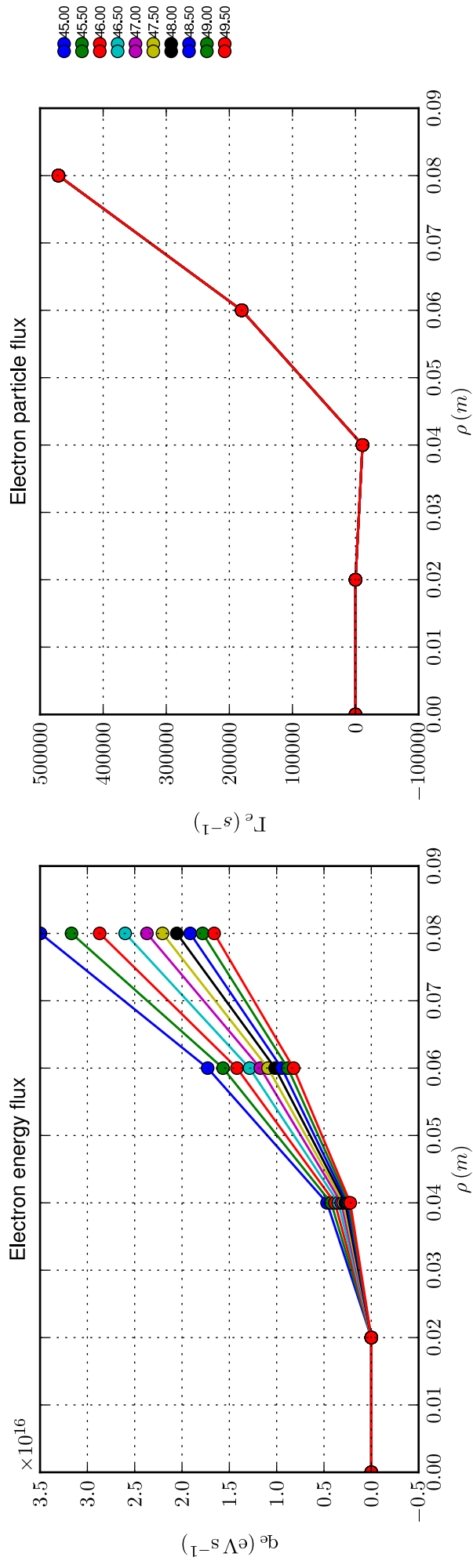
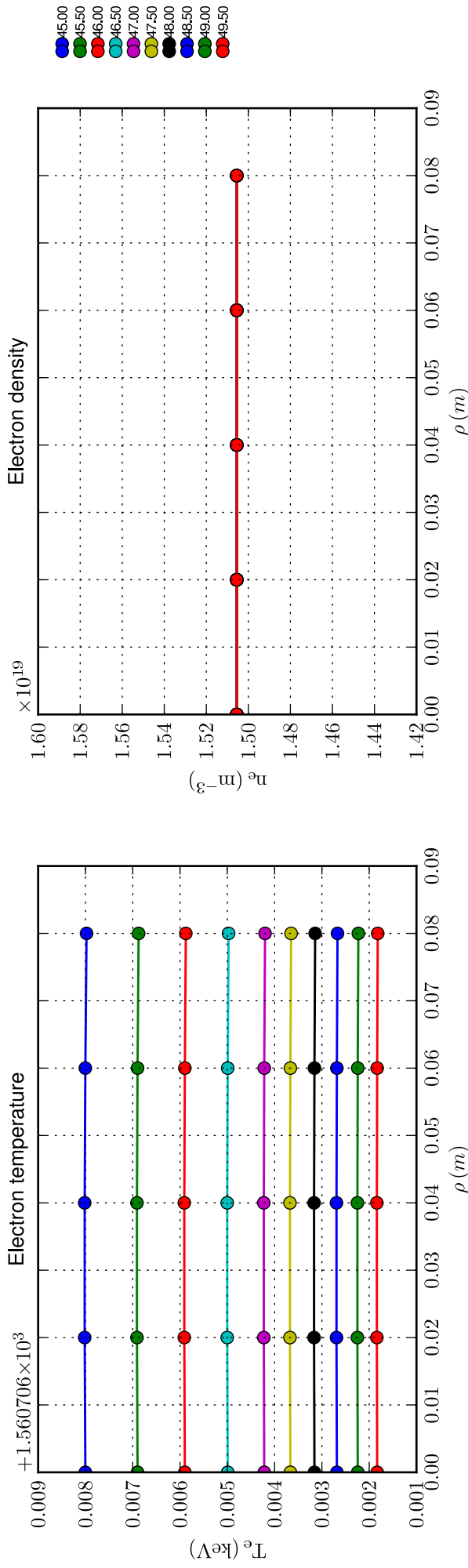
Time sampling: last 10 time slices



45.00
45.50
46.00
46.50
47.00
47.50
48.00
48.50
49.00
49.50

Profiles [Case: 1.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

Spatial zoom over magnetic axis; time sampling: last 10 time slices



Profiles [Case: I.1.5, Solver: 7, $D = 0.1 \text{ m}^2/\text{s}$, $v = 0.00 \text{ m/s}$, $\Delta t = 50.01$, $\tau = 1.0 \times 10^{-2} \text{ s}$, $N_\rho = 101$]

Spatial zoom over edge; time sampling: last 10 time slices

