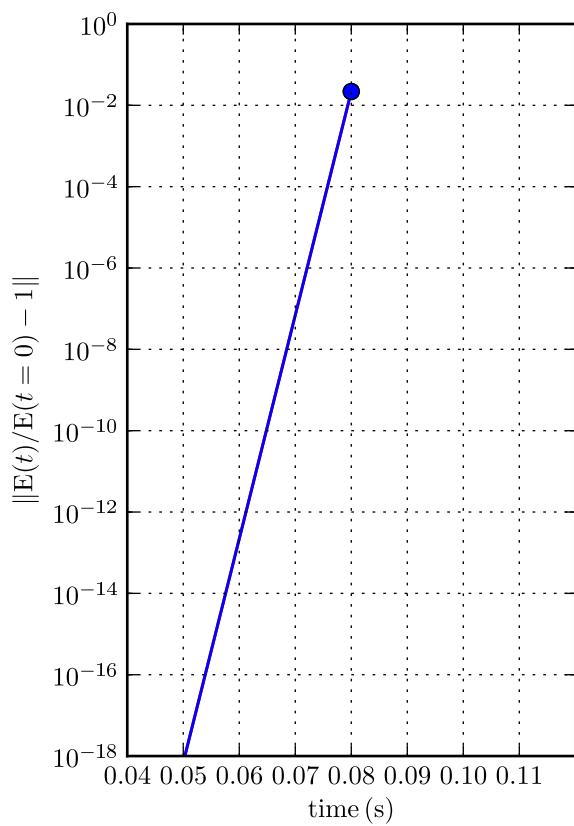
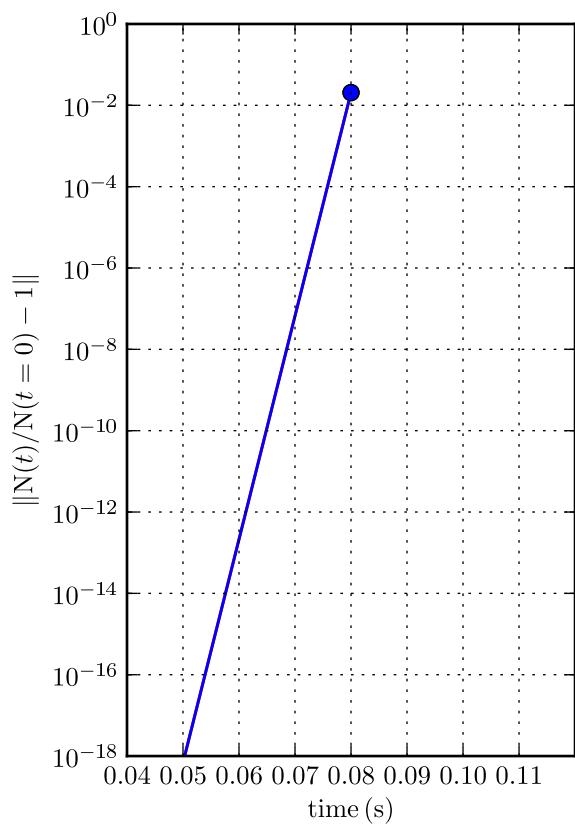
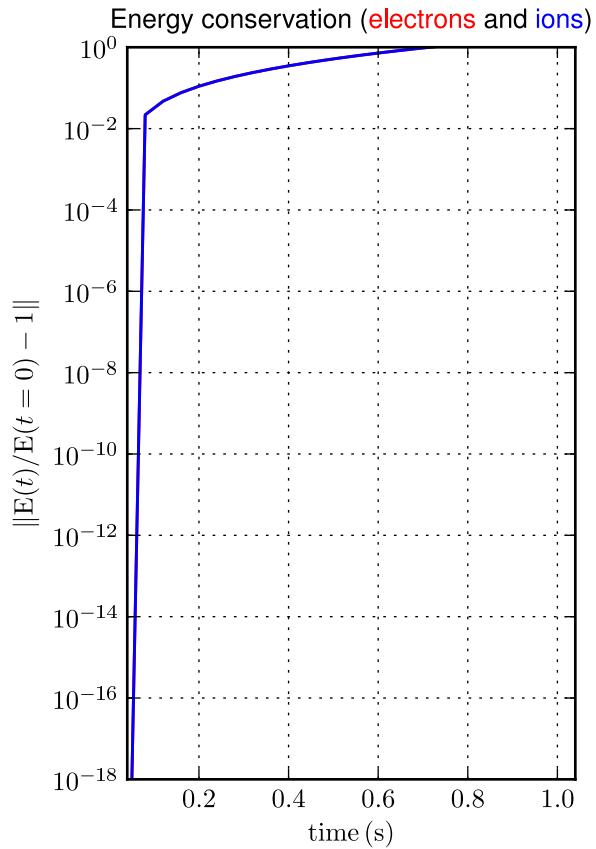
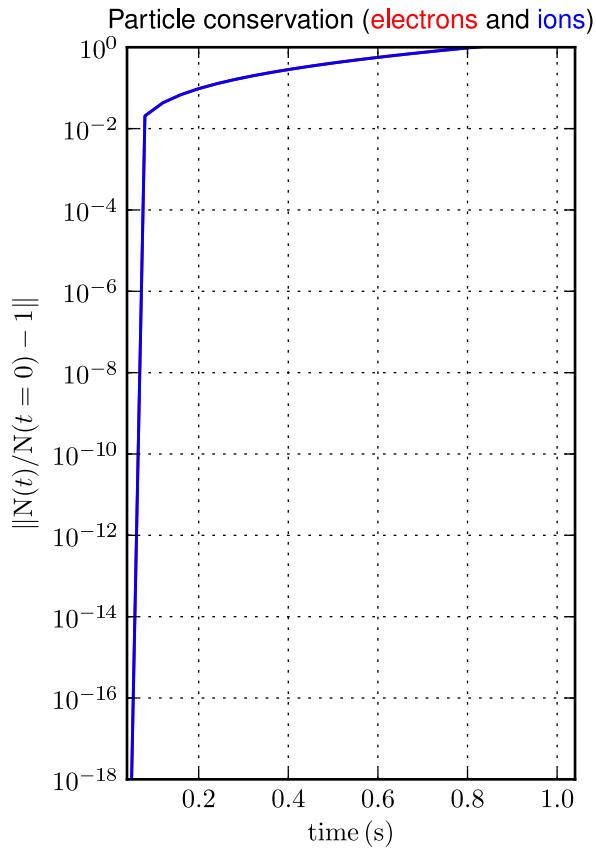


### Part. & Energy conservation

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

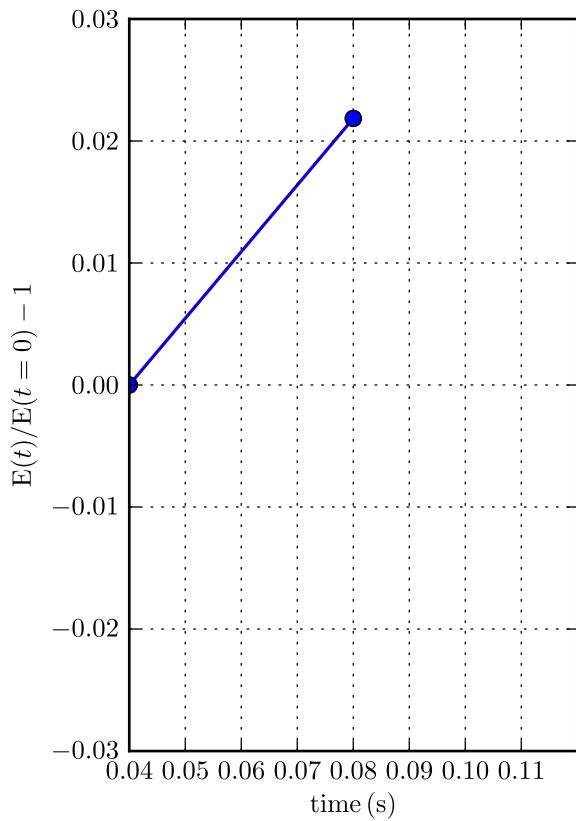
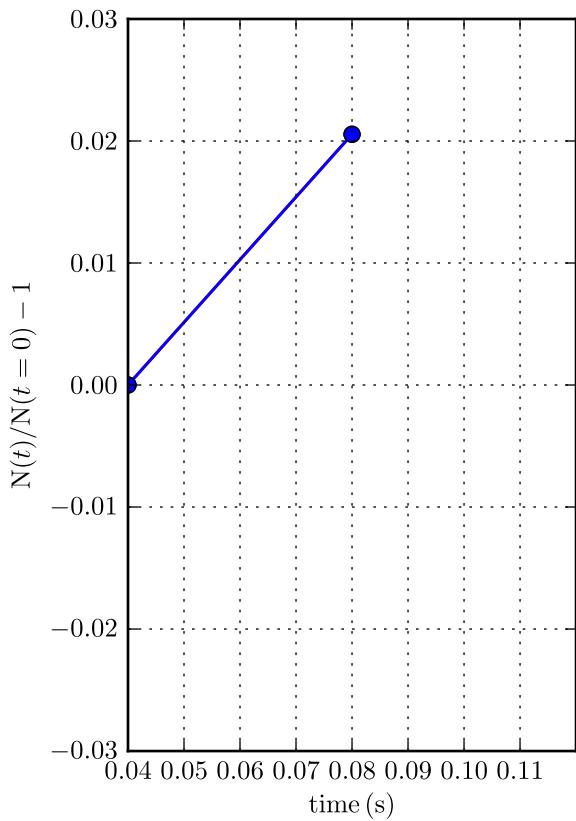
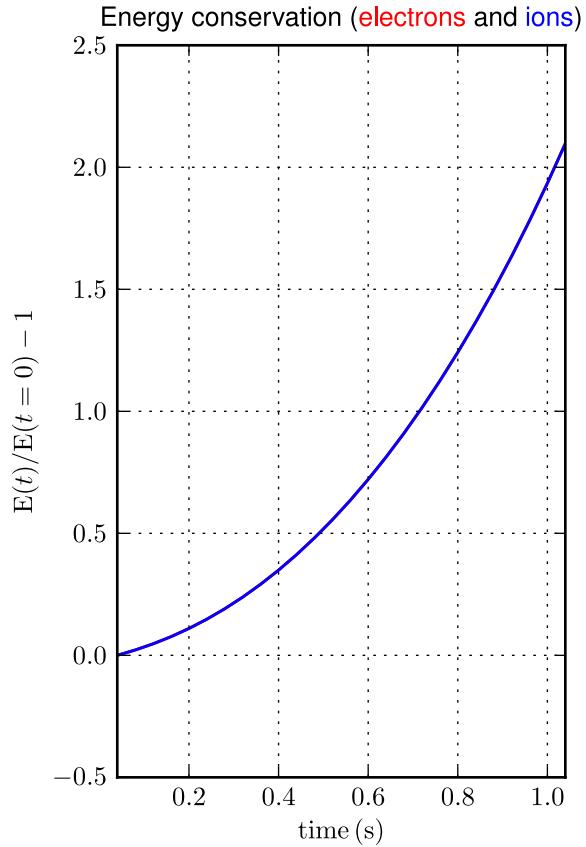
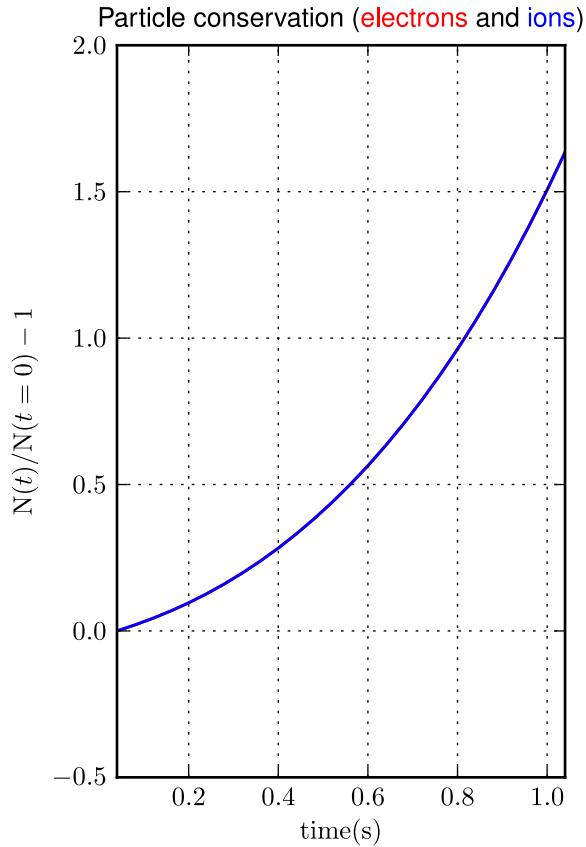
Comparison with initial solution - log scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

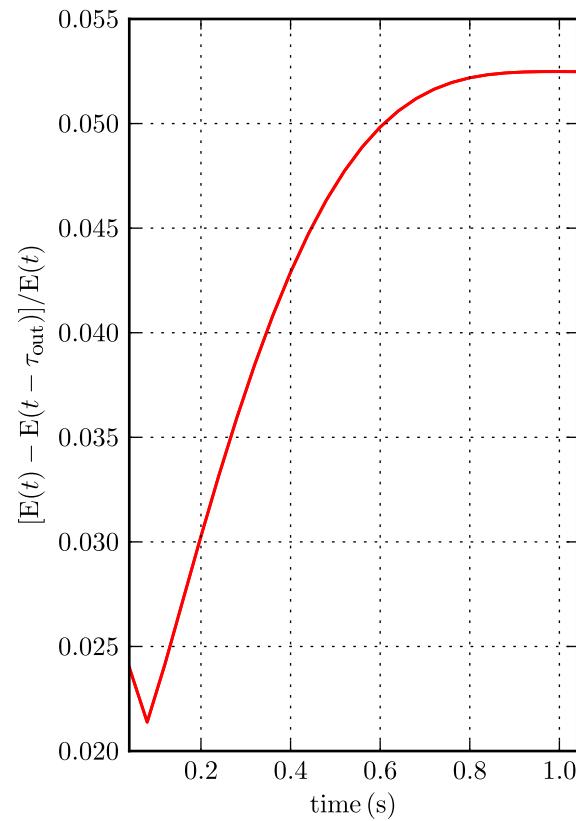
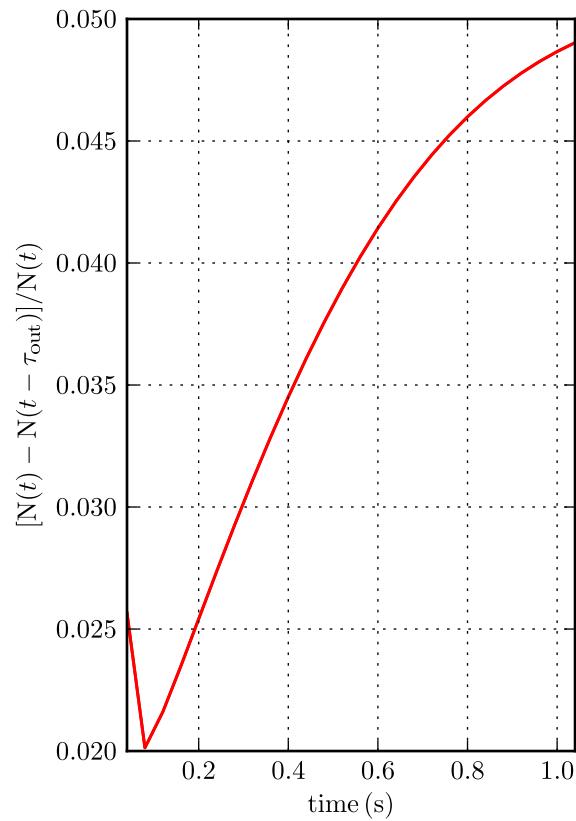
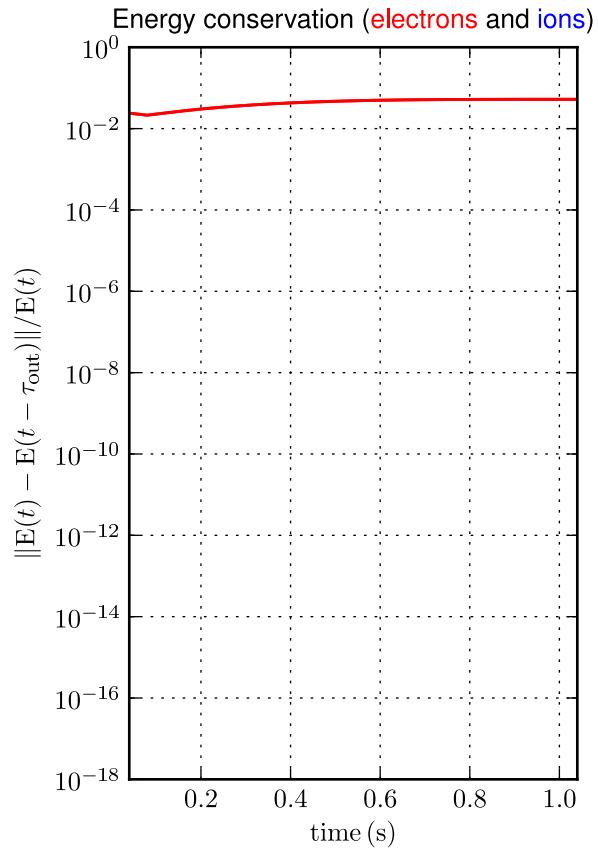
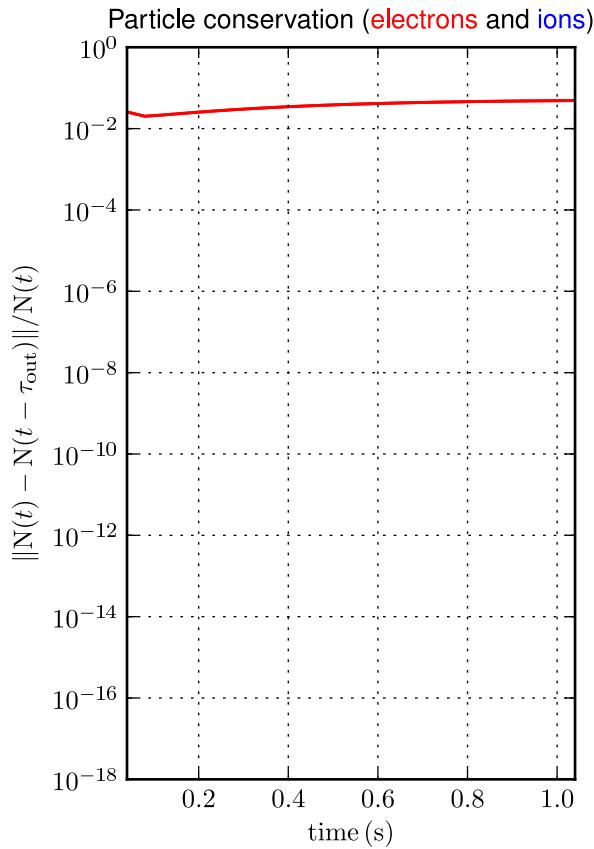
Comparison with initial solution - linear scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

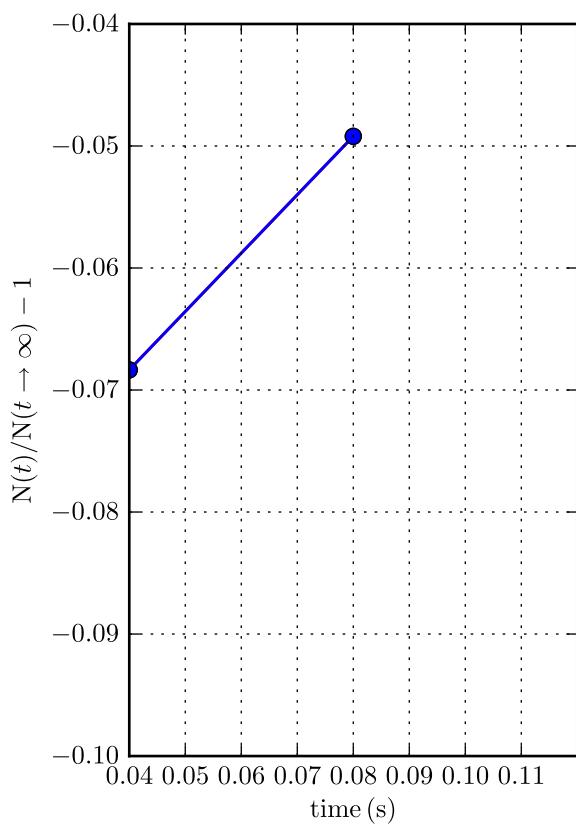
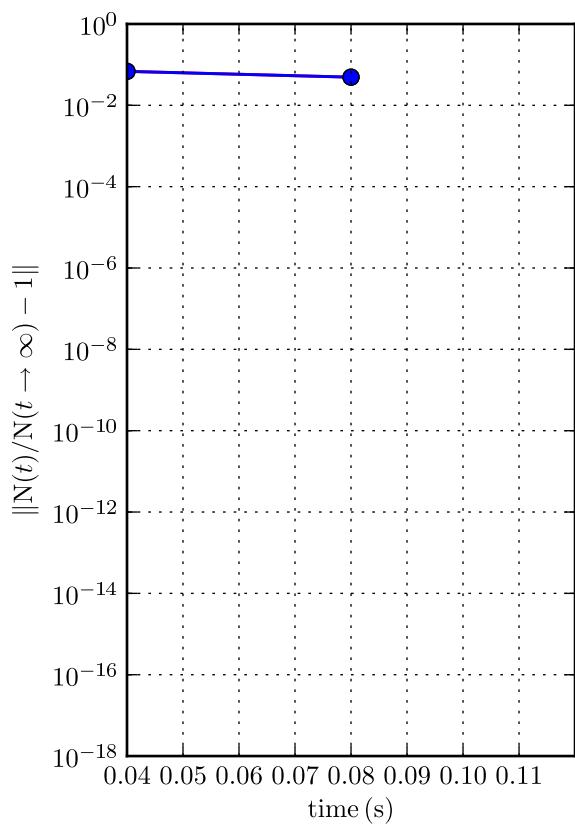
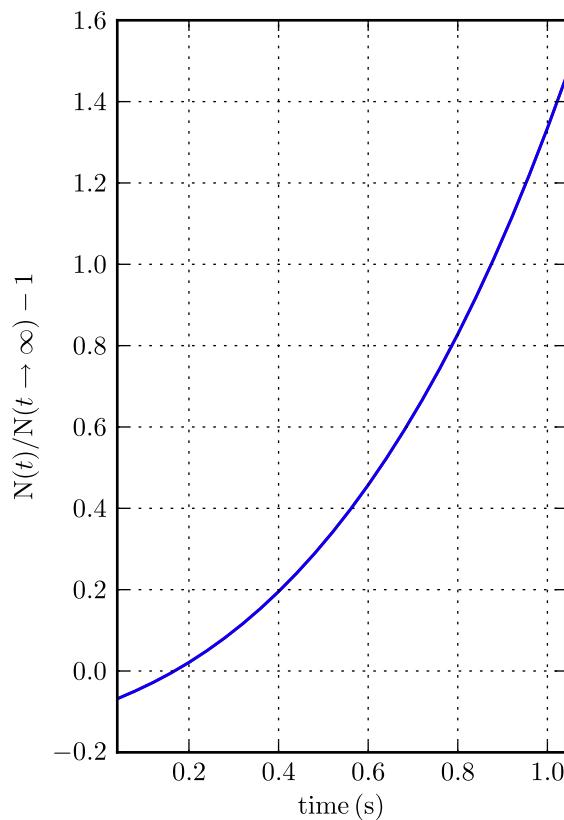
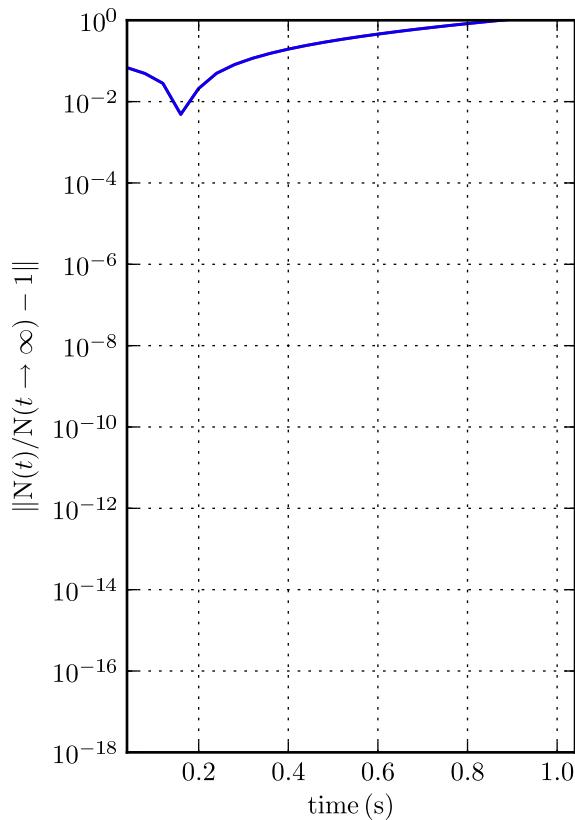
Comparison with previous time-sampled ( $\tau_{\text{out}}$ ) solution - log and linear scales



### Particle conservation

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

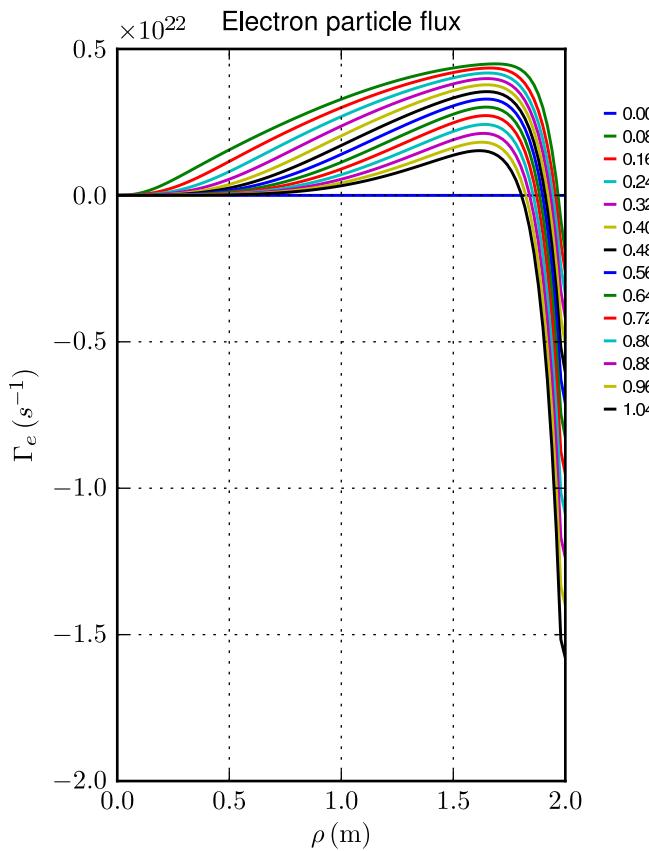
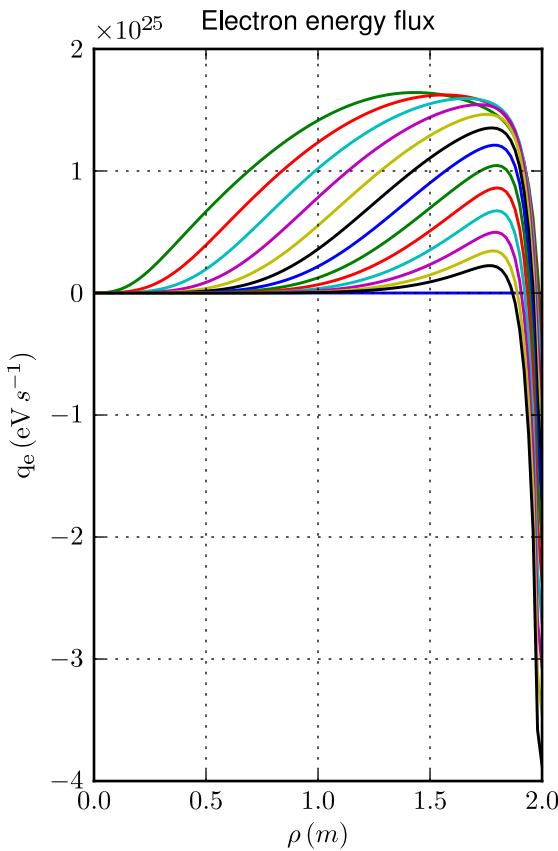
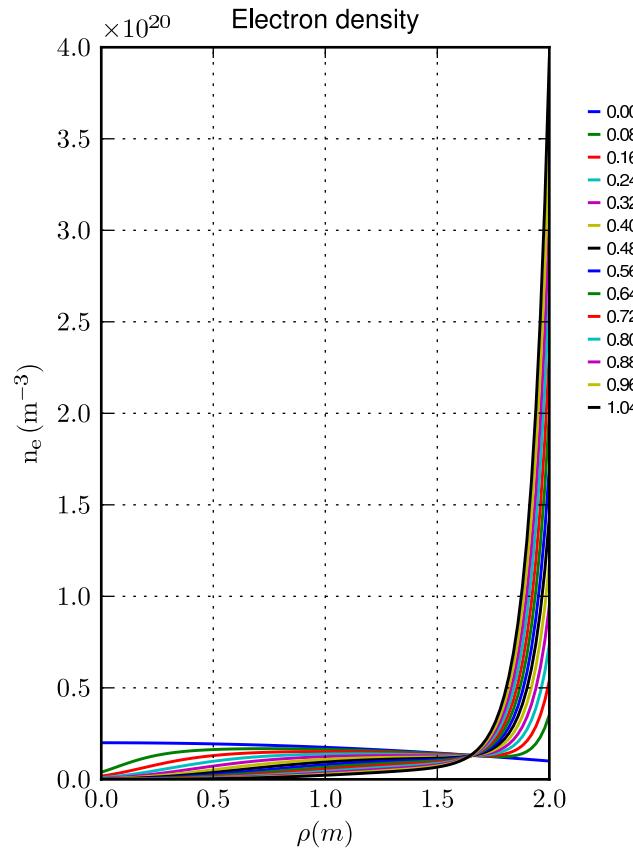
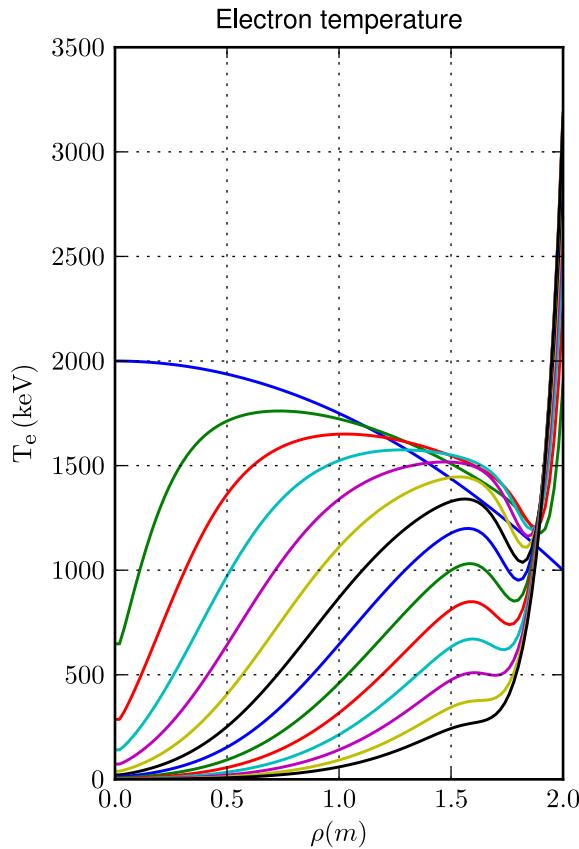
Comparison with asymptotic solution (electrons and ions); total time and zoom over time



### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

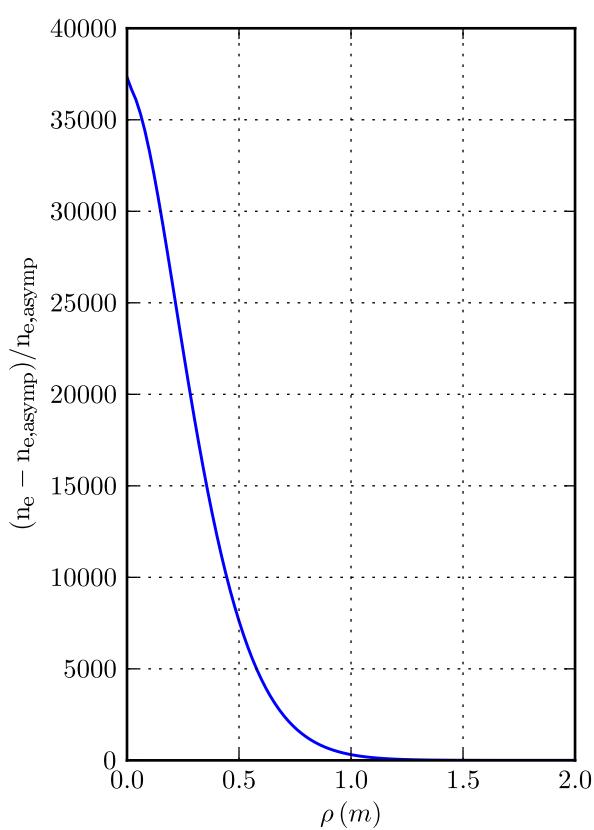
Time sampling: total simulation time/10



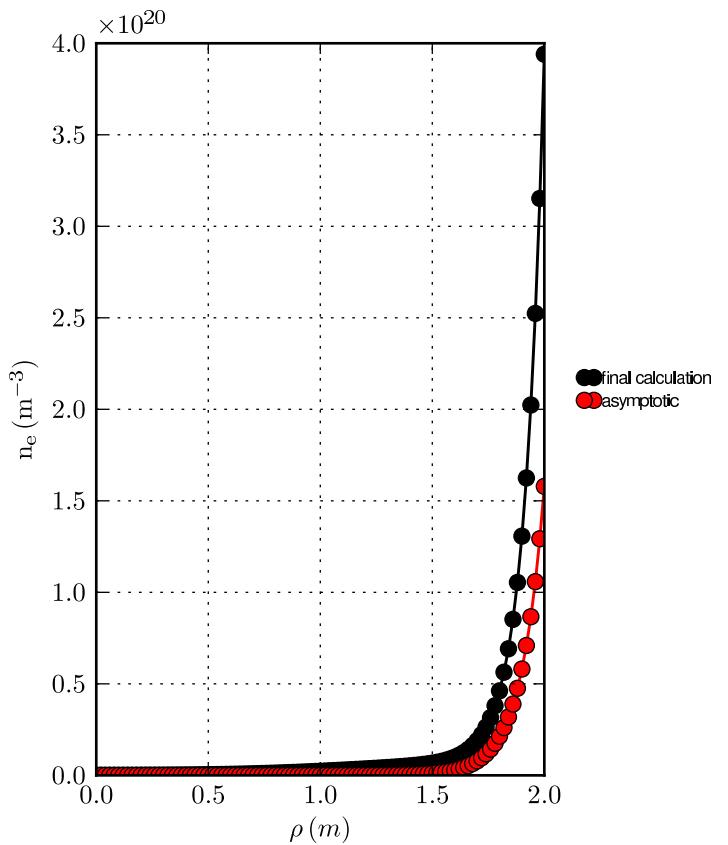
### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Comparison with asymptotic solution

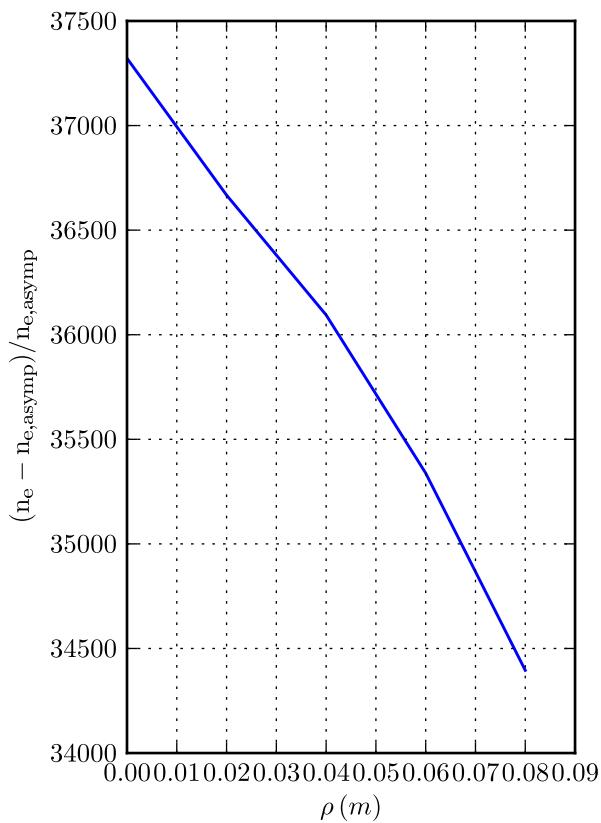
Electron density relative error



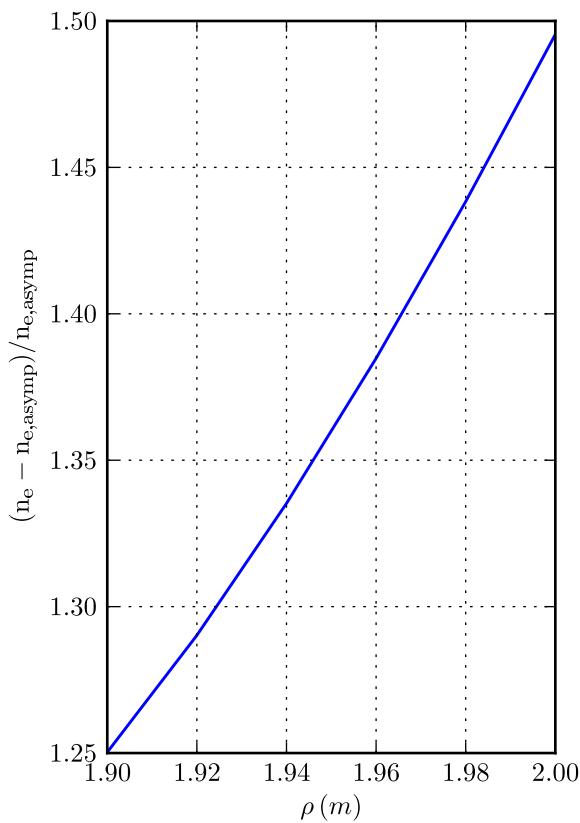
Electron density



Error: zoom over axis



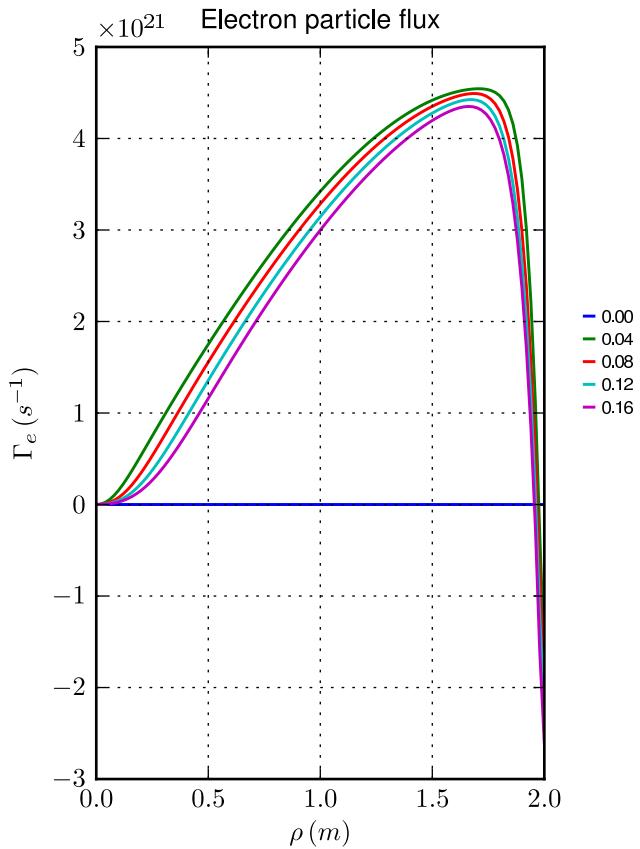
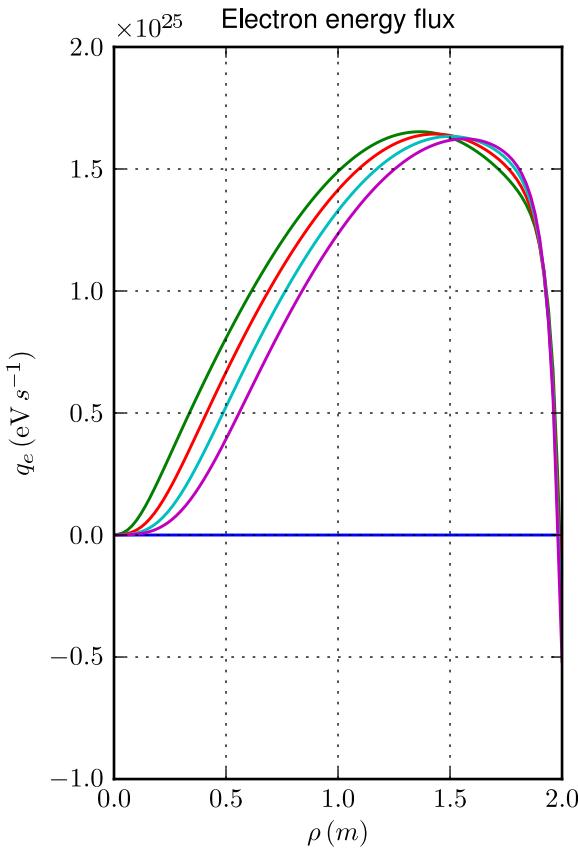
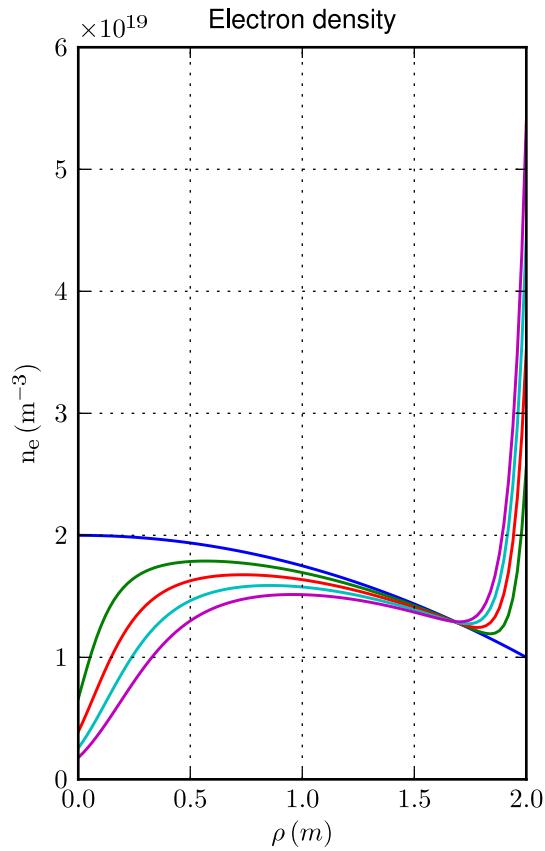
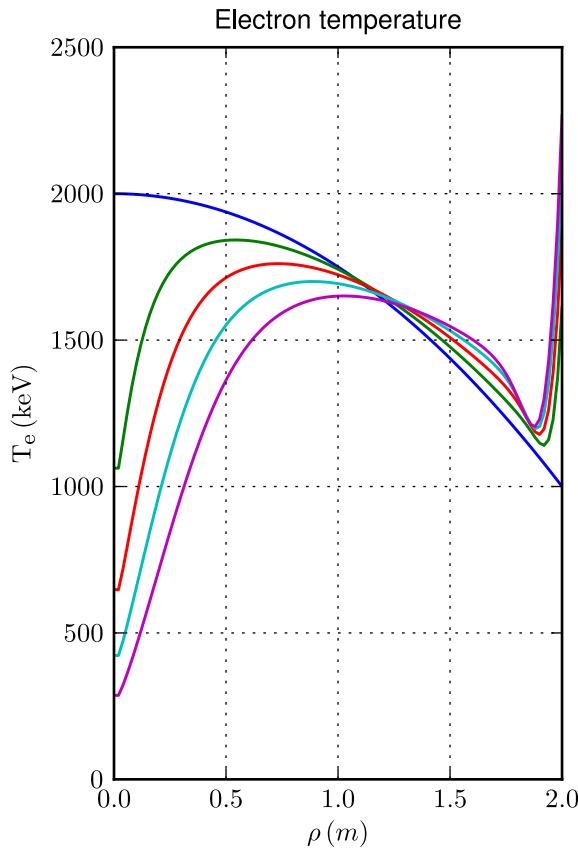
Error: zoom over edge



### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

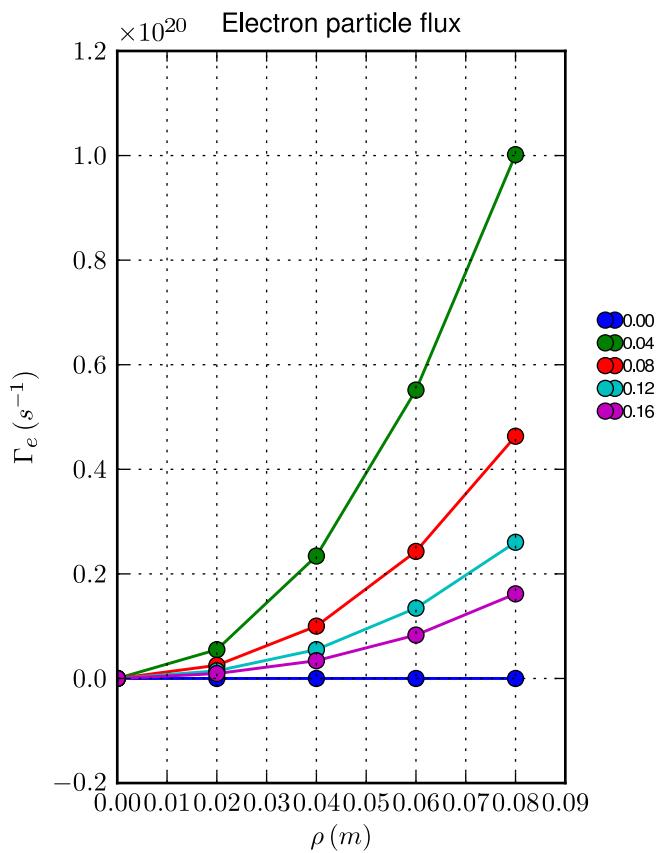
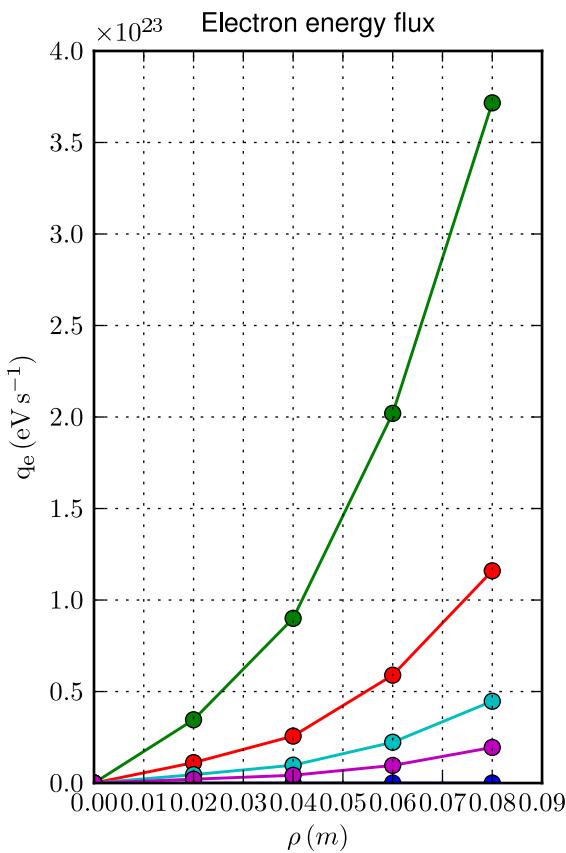
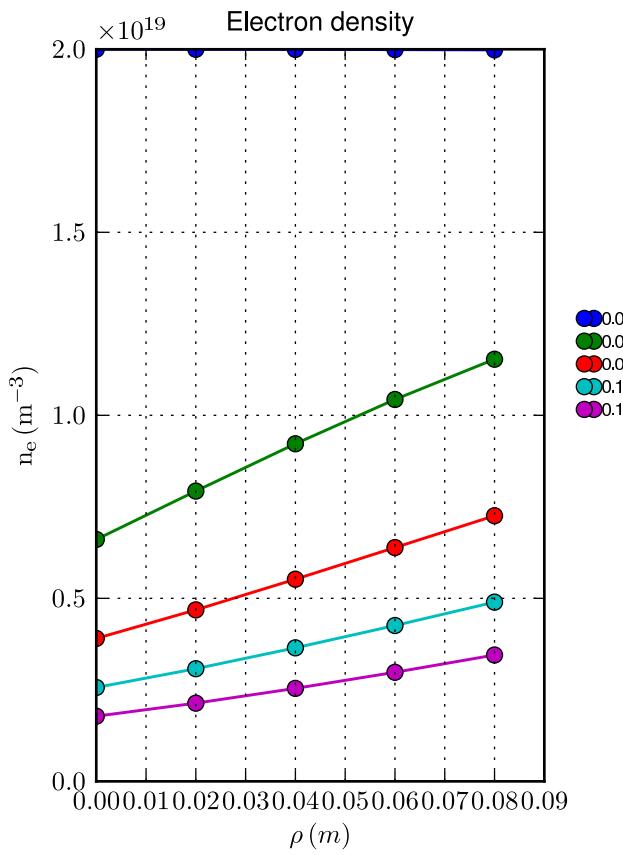
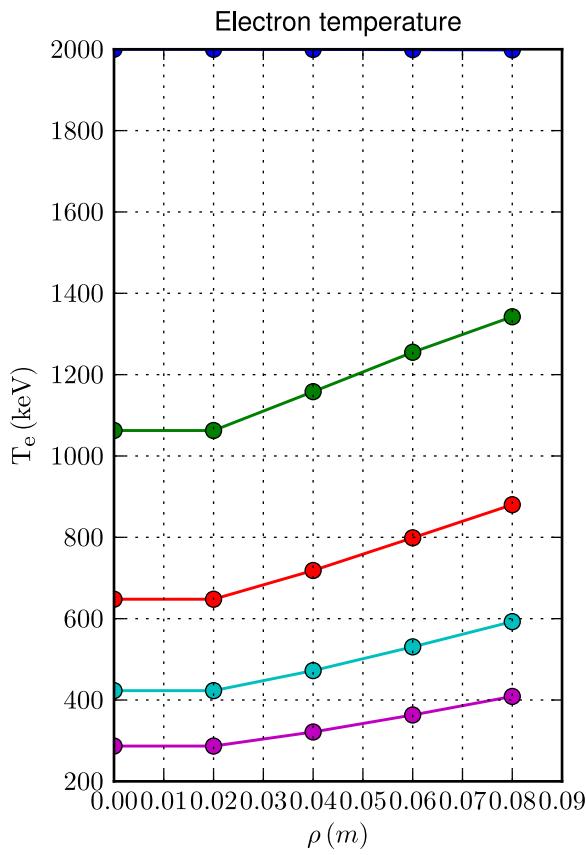


### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over magnetic axis

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

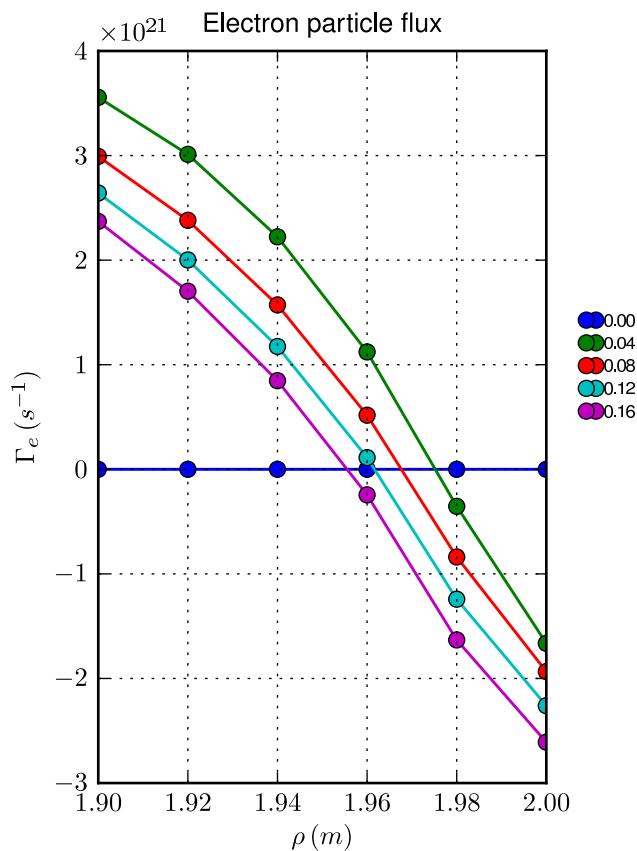
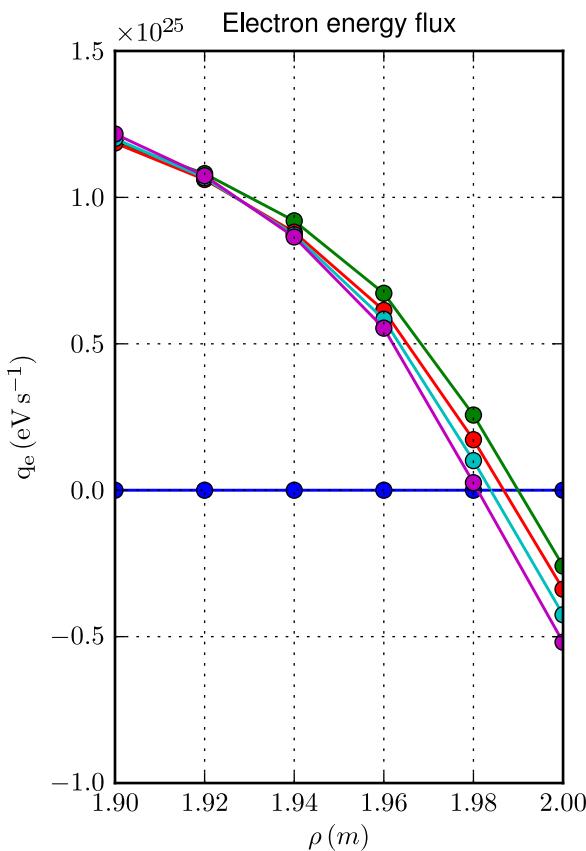
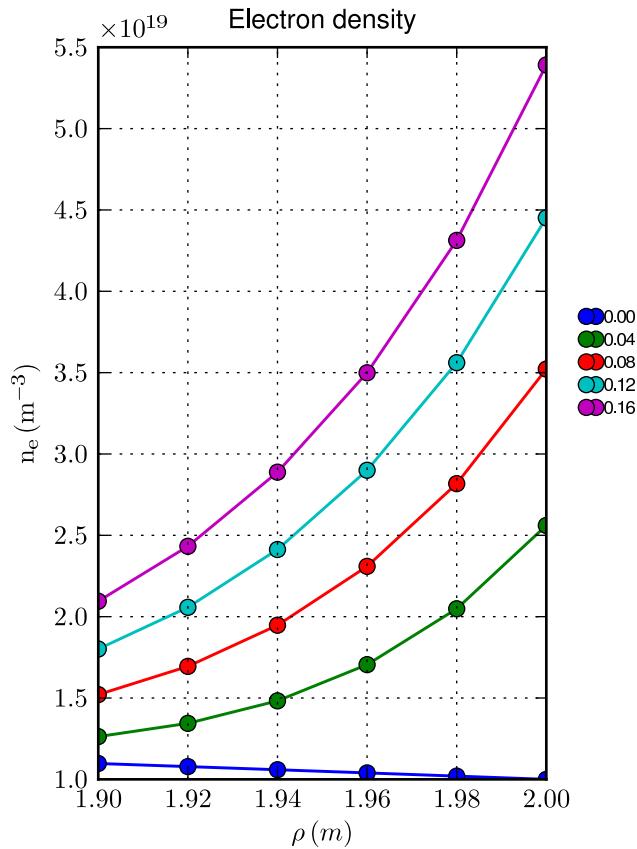
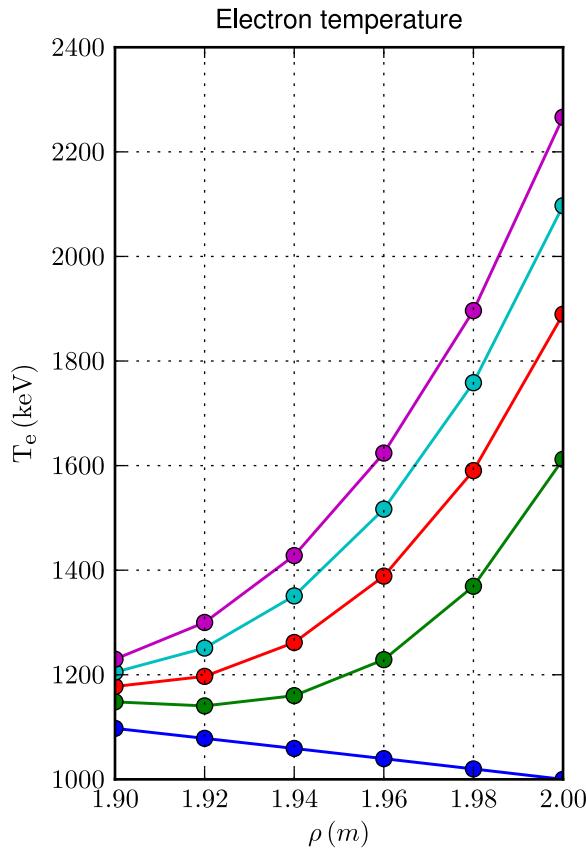


### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over edge

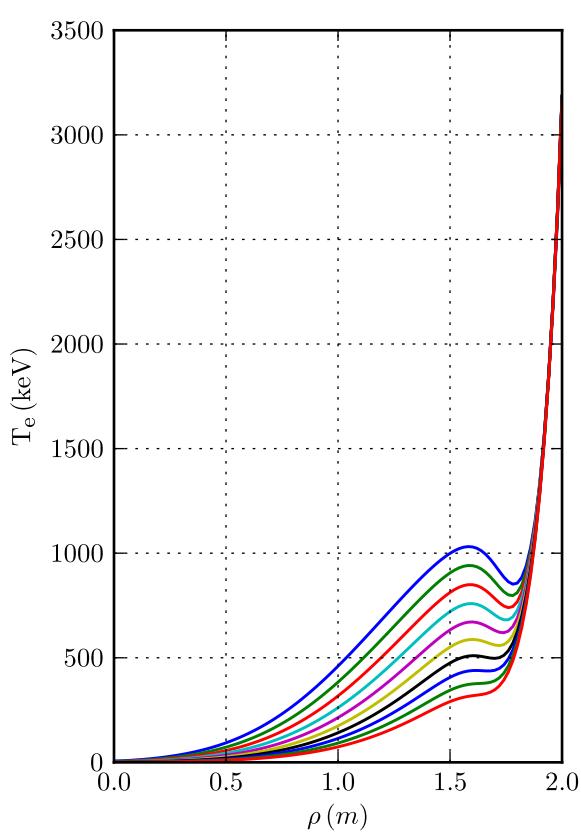
Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$



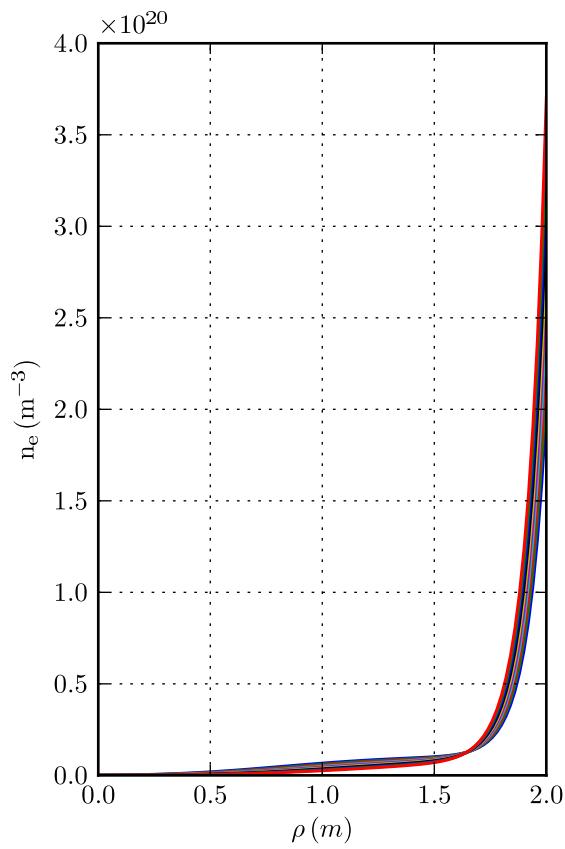
### Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Time sampling: last 10 time slices

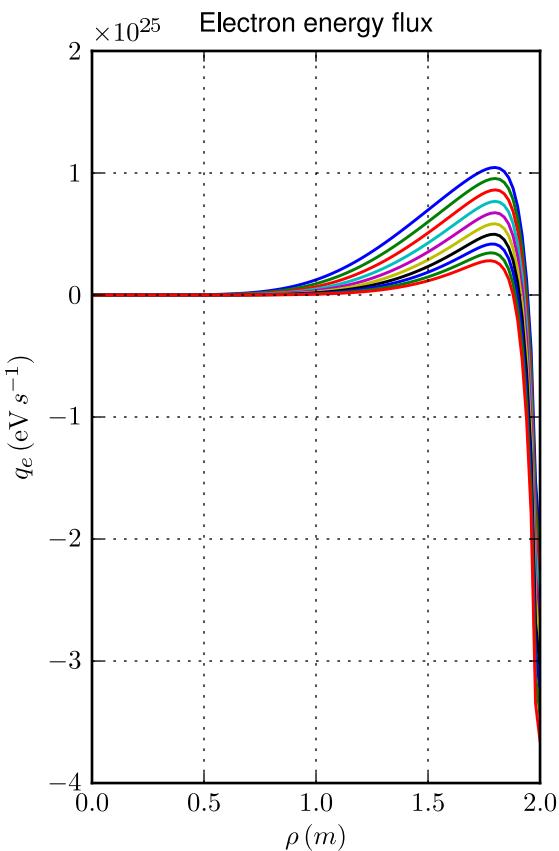
Electron temperature



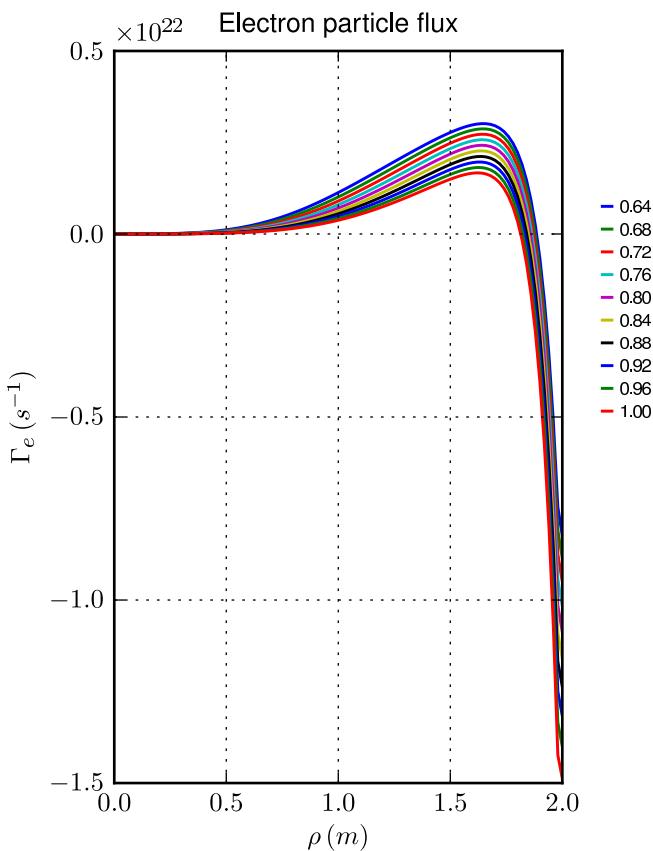
Electron density



Electron energy flux



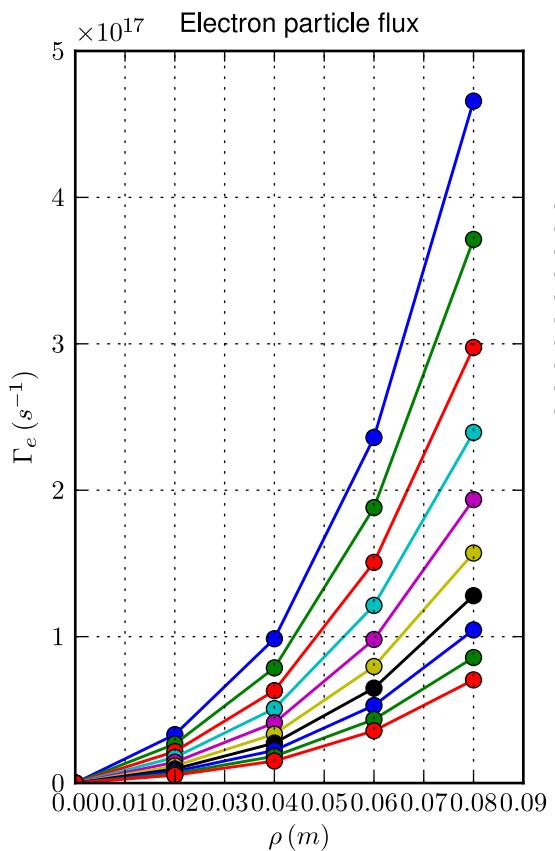
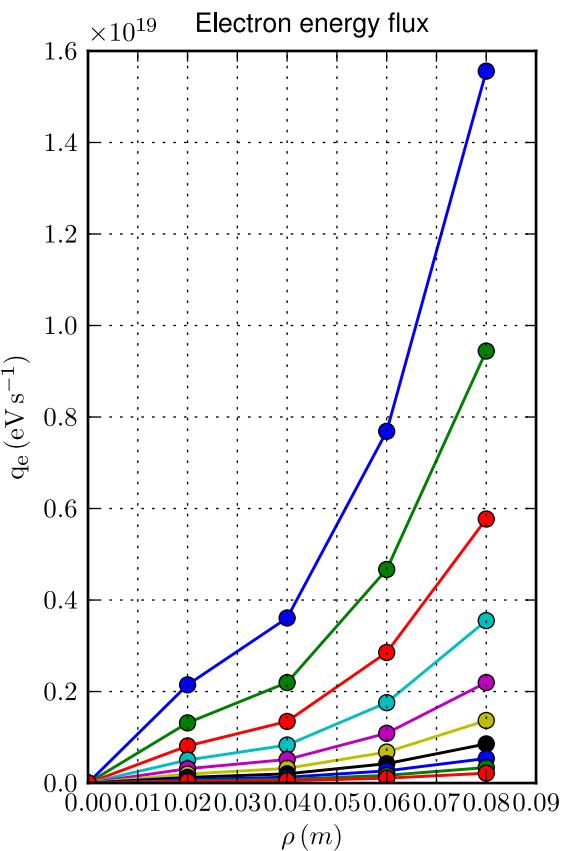
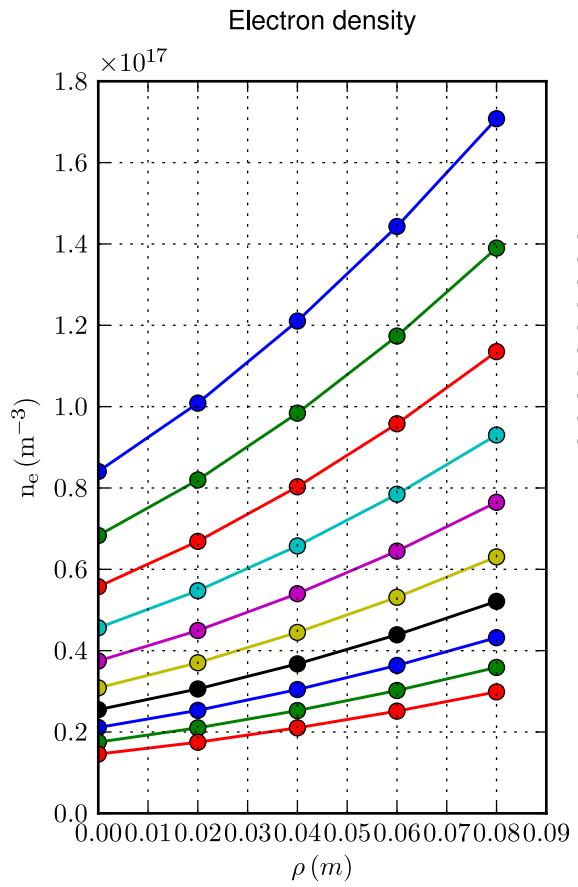
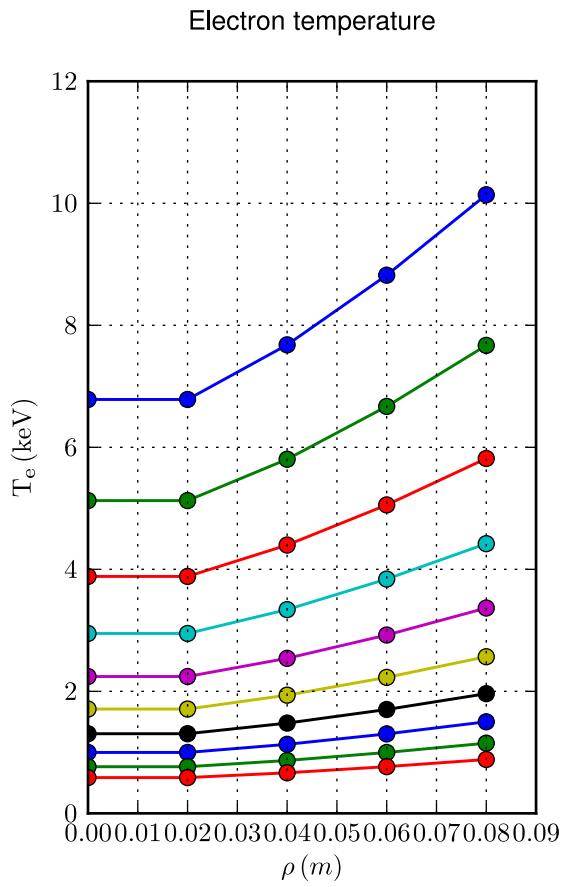
Electron particle flux



Legend:  
 0.64  
 0.68  
 0.72  
 0.76  
 0.80  
 0.84  
 0.88  
 0.92  
 0.96  
 1.00

### Profiles

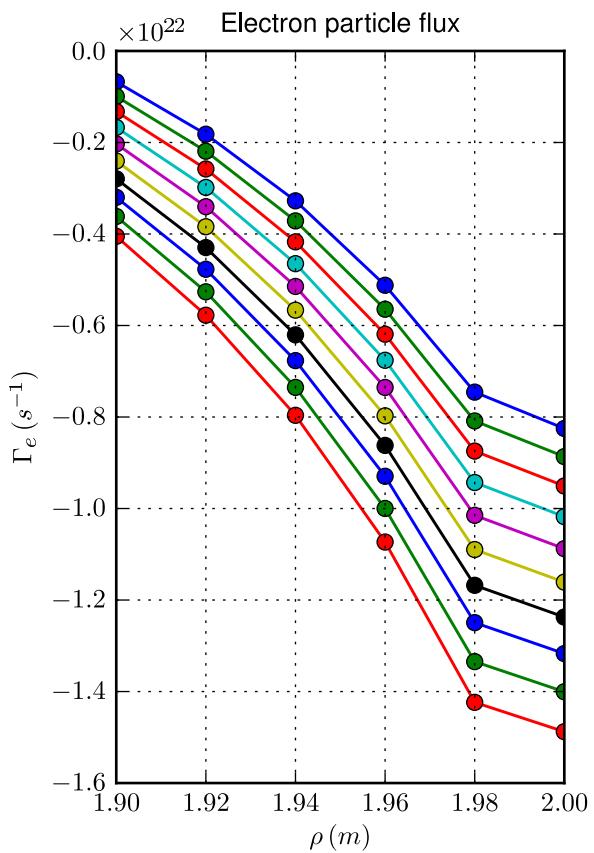
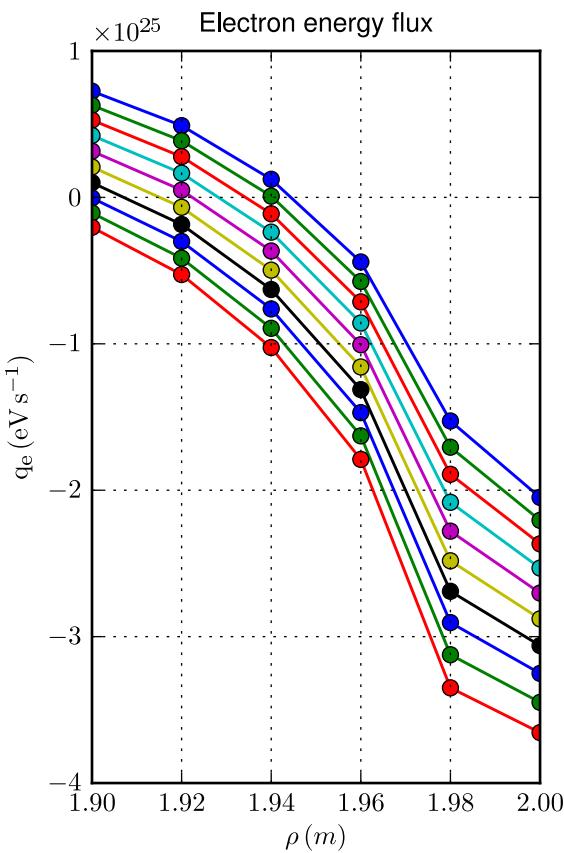
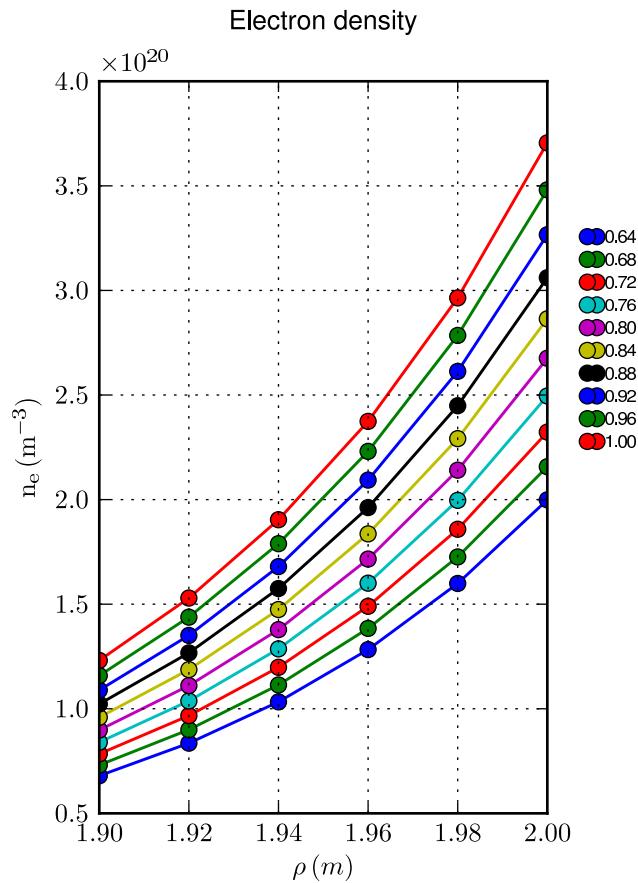
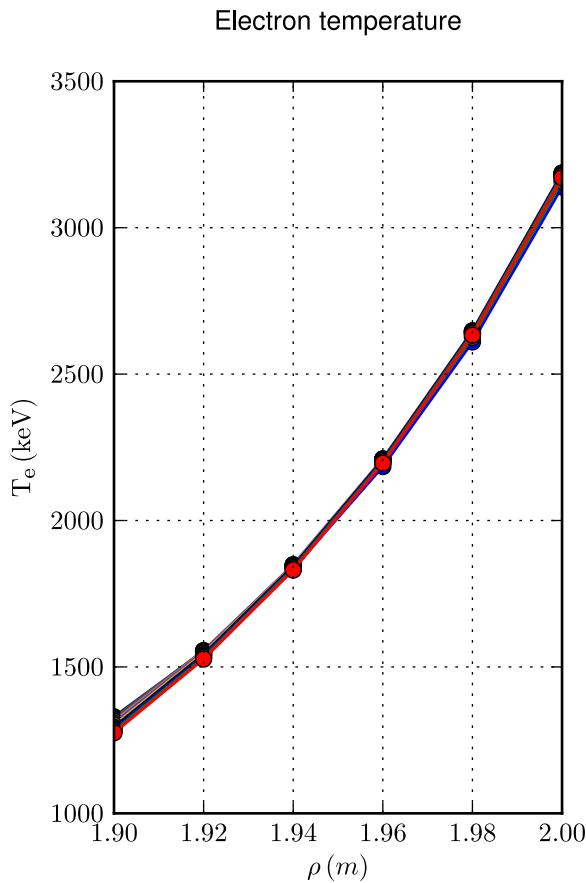
[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Spatial zoom over magnetic axis; time sampling: last 10 time slices



## Profiles

[Case: I.1.5.c, Solver: 3,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

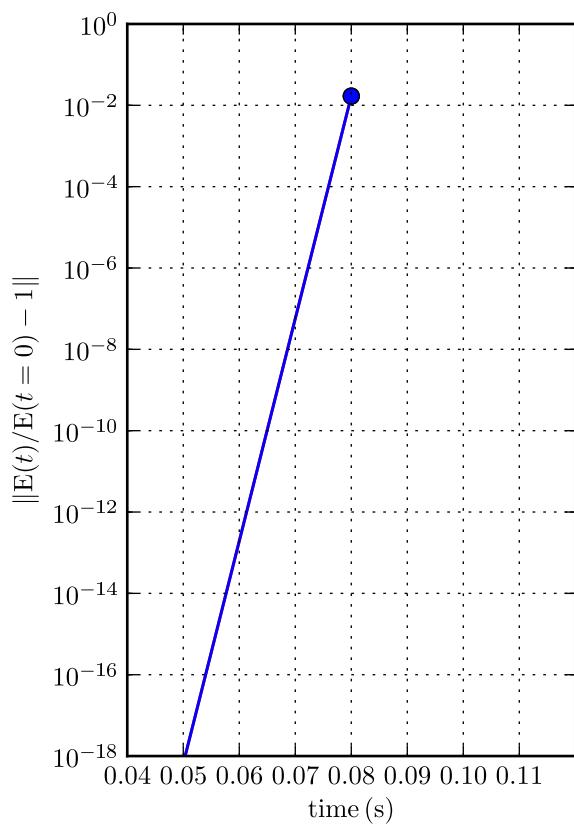
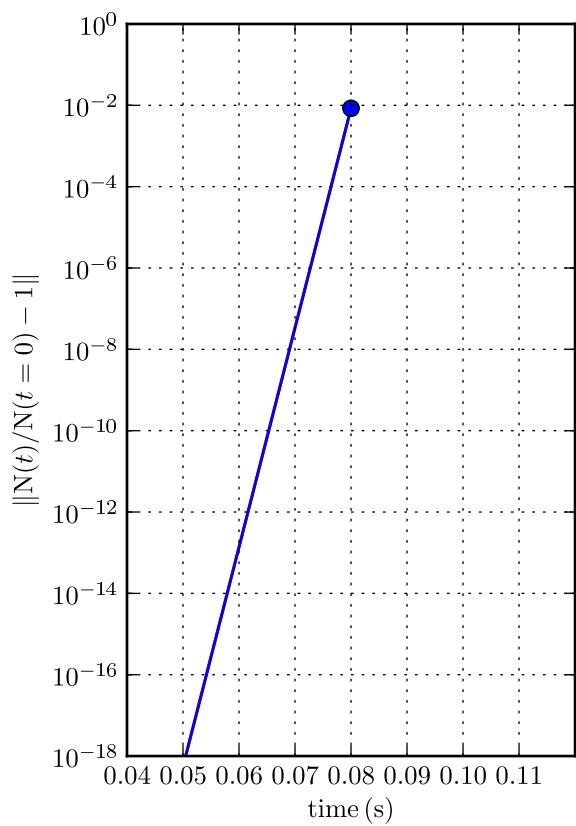
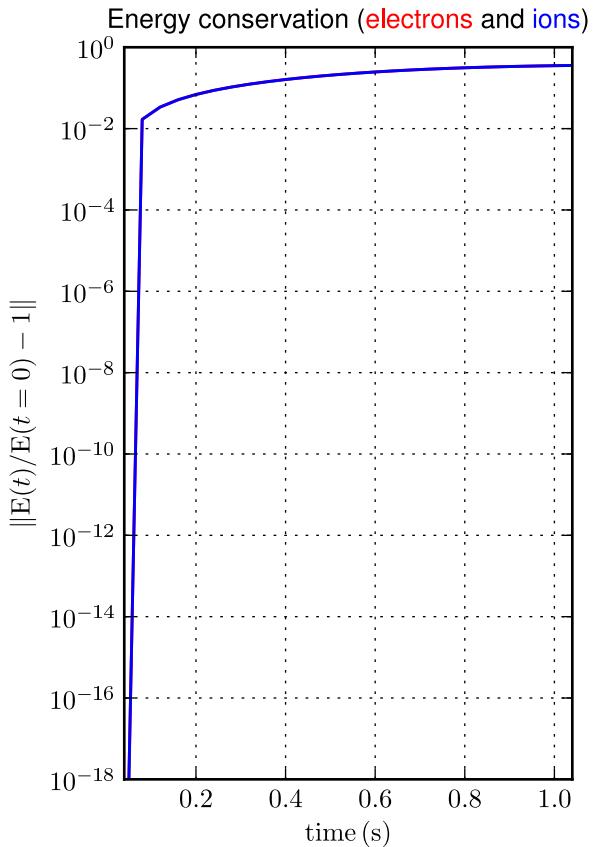
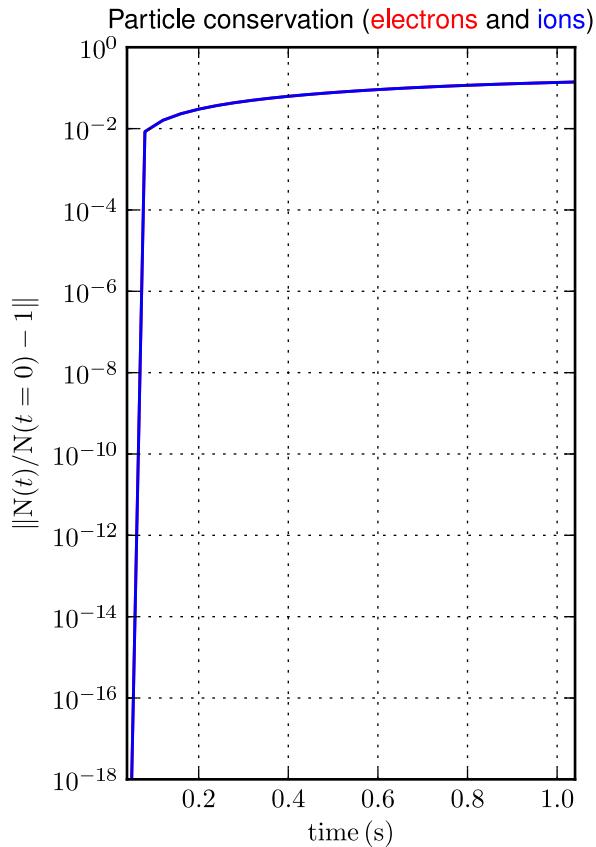
Spatial zoom over edge; time sampling: last 10 time slices



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

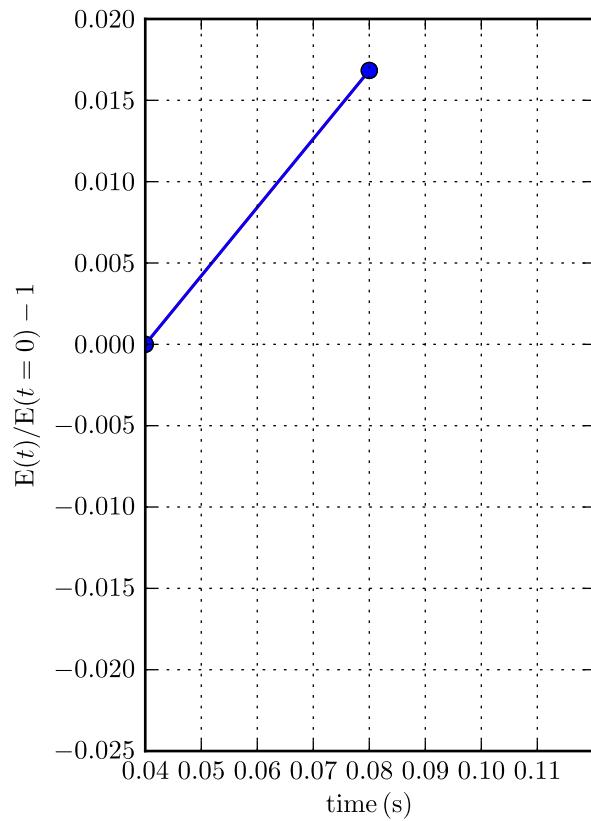
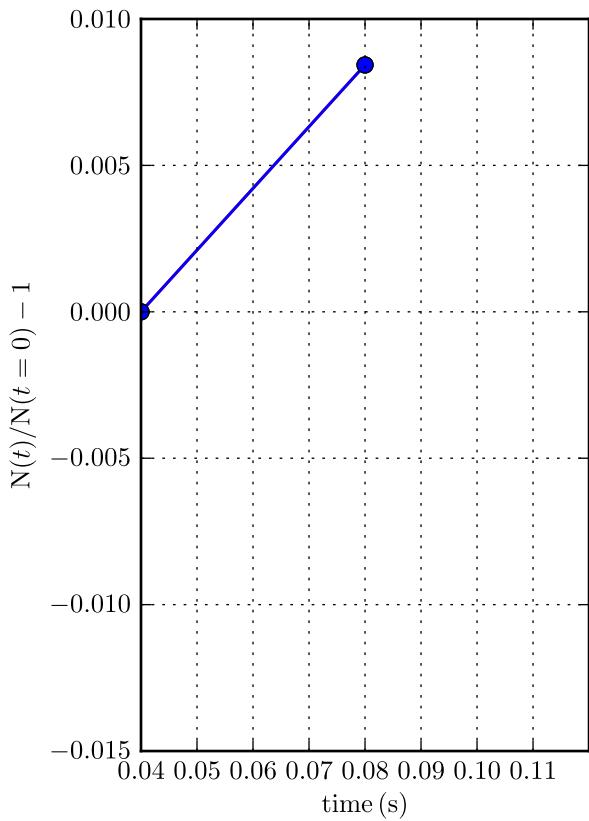
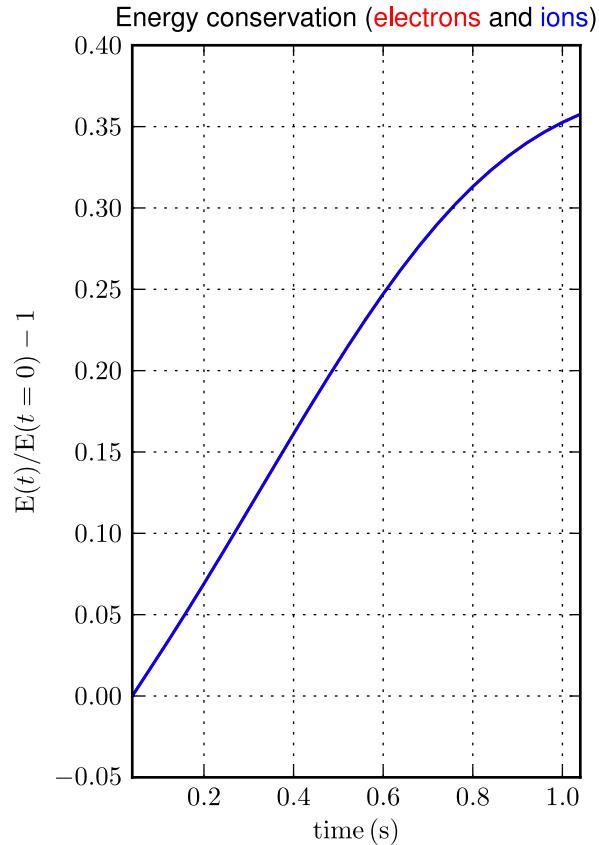
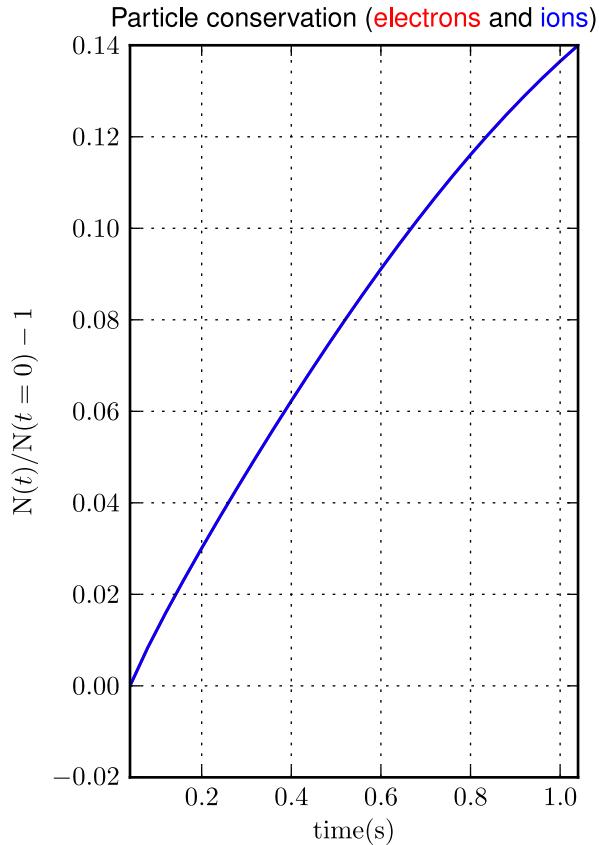
Comparison with initial solution - log scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

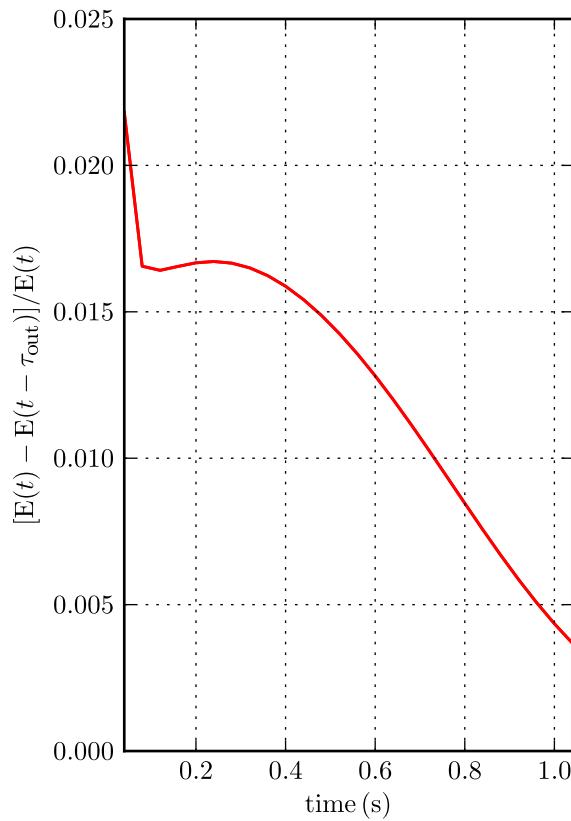
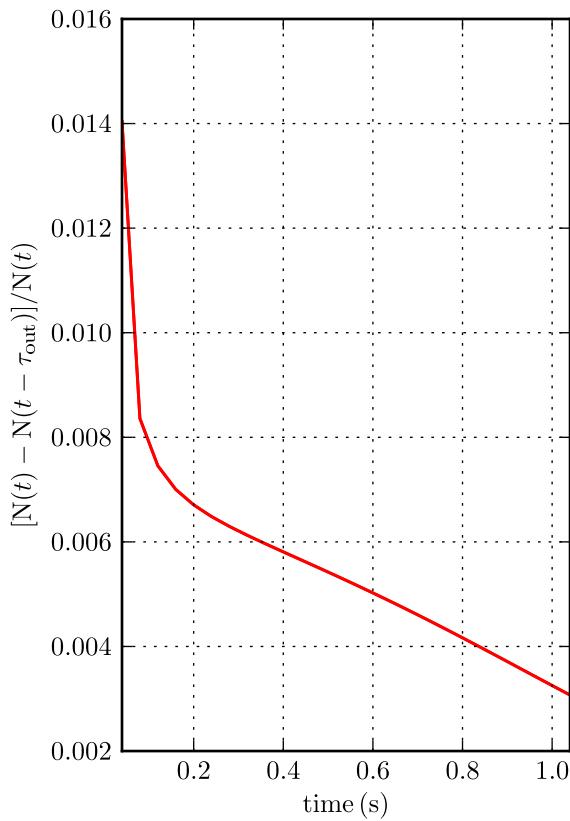
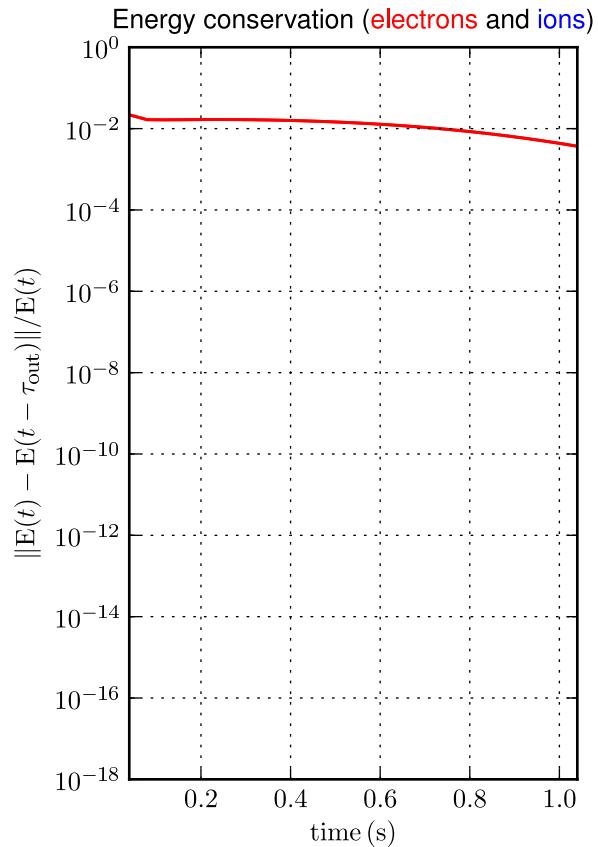
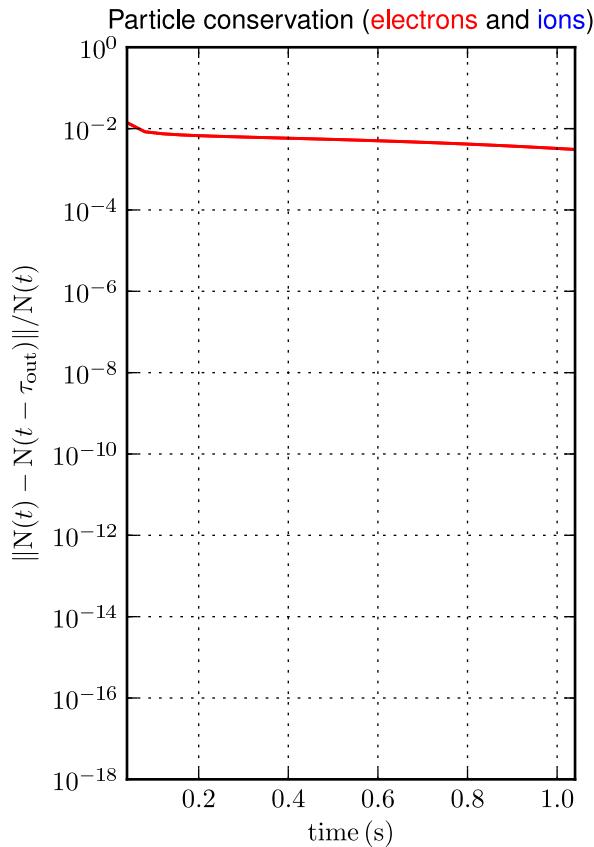
Comparison with initial solution - linear scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

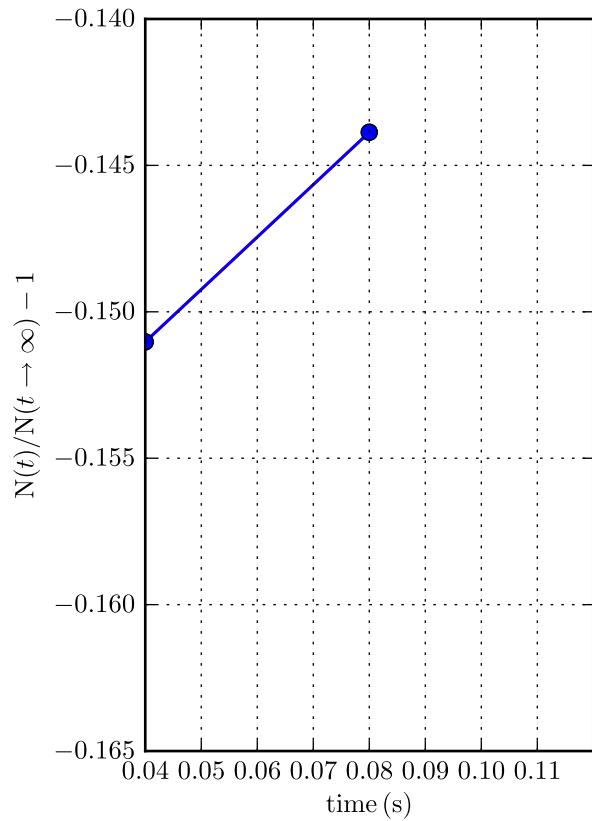
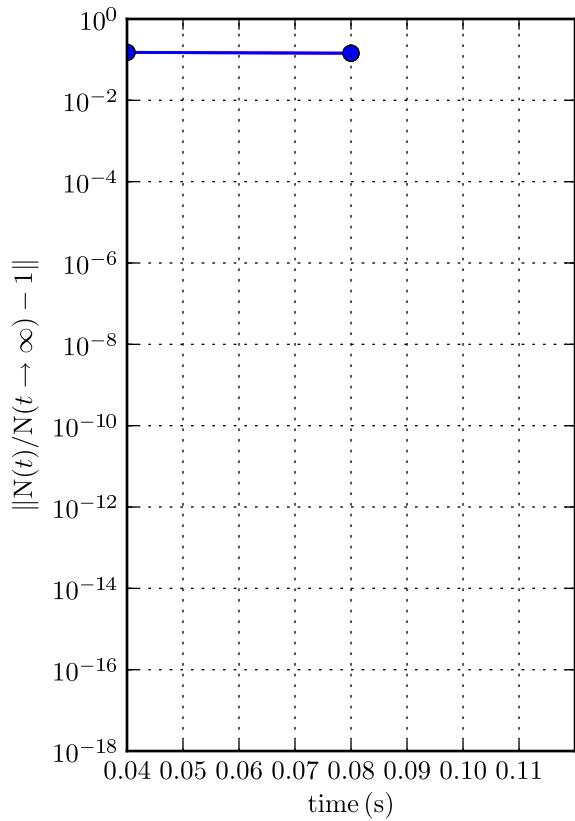
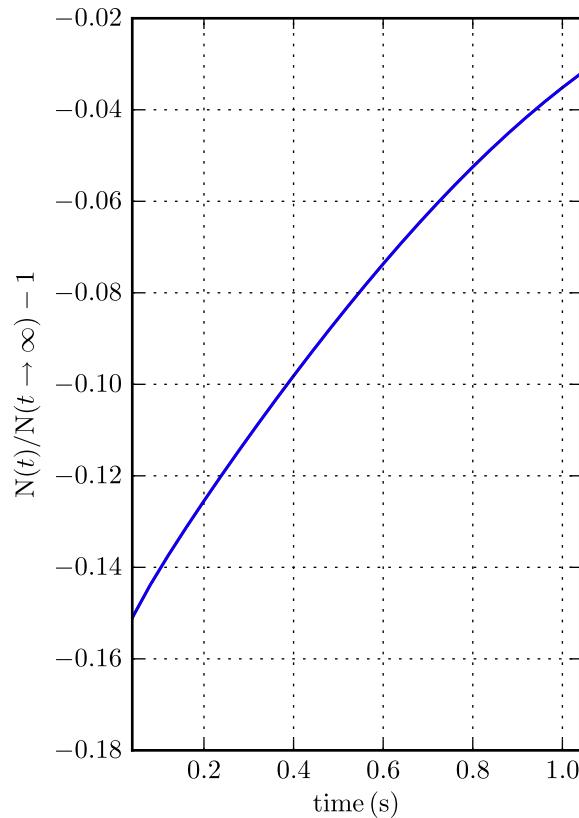
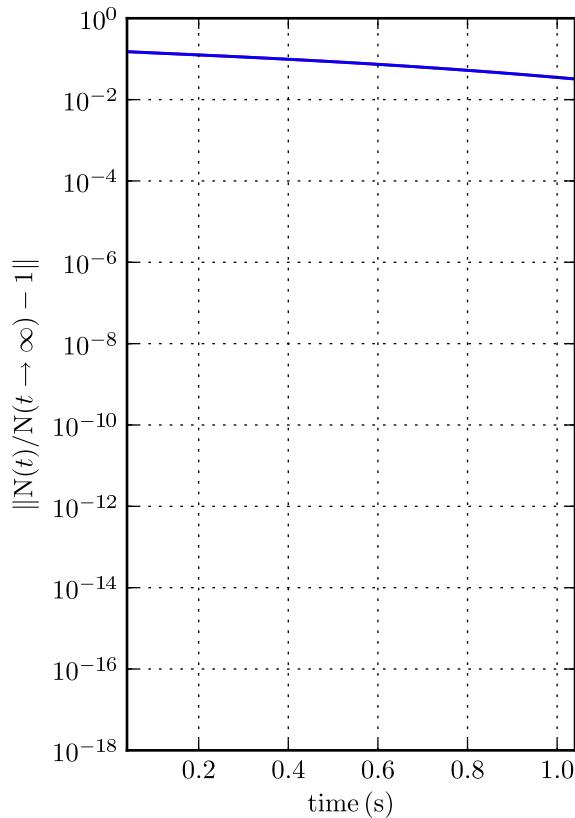
Comparison with previous time-sampled ( $\tau_{\text{out}}$ ) solution - log and linear scales



### Particle conservation

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

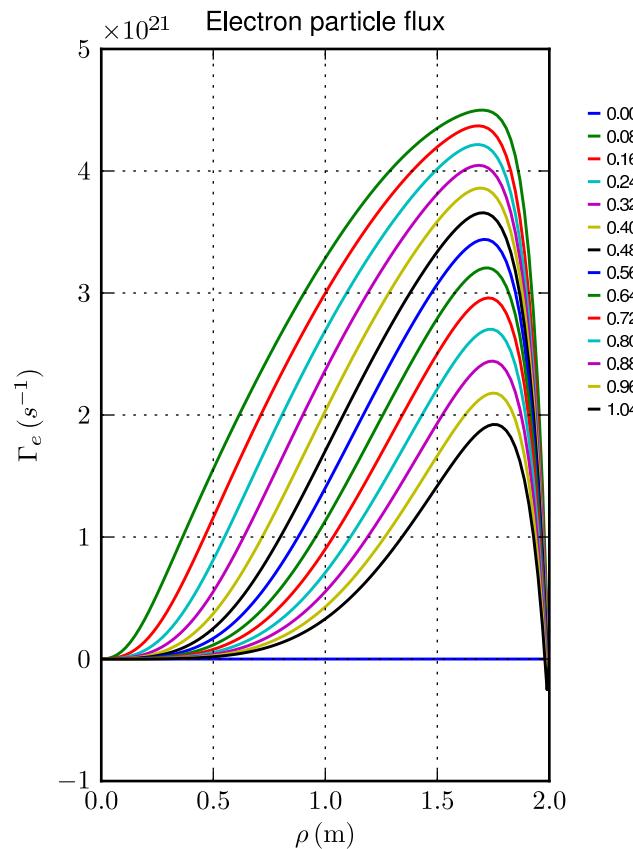
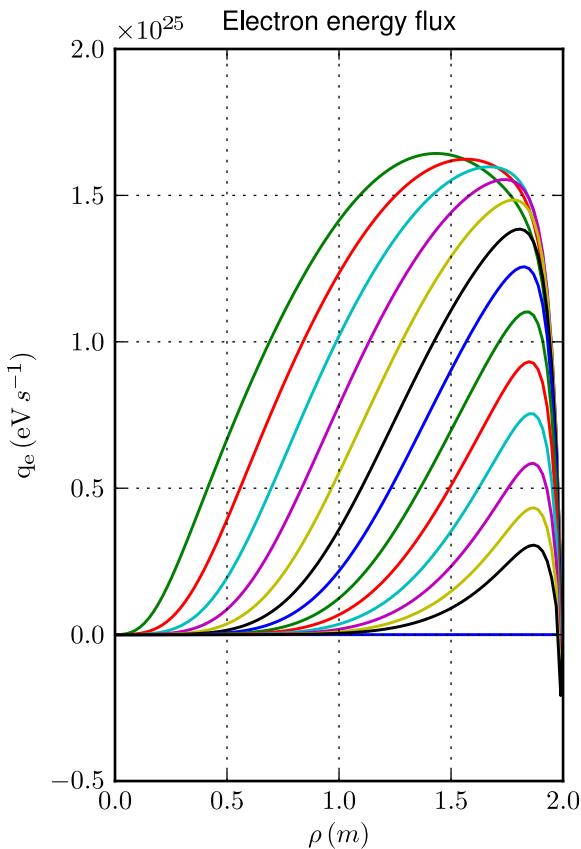
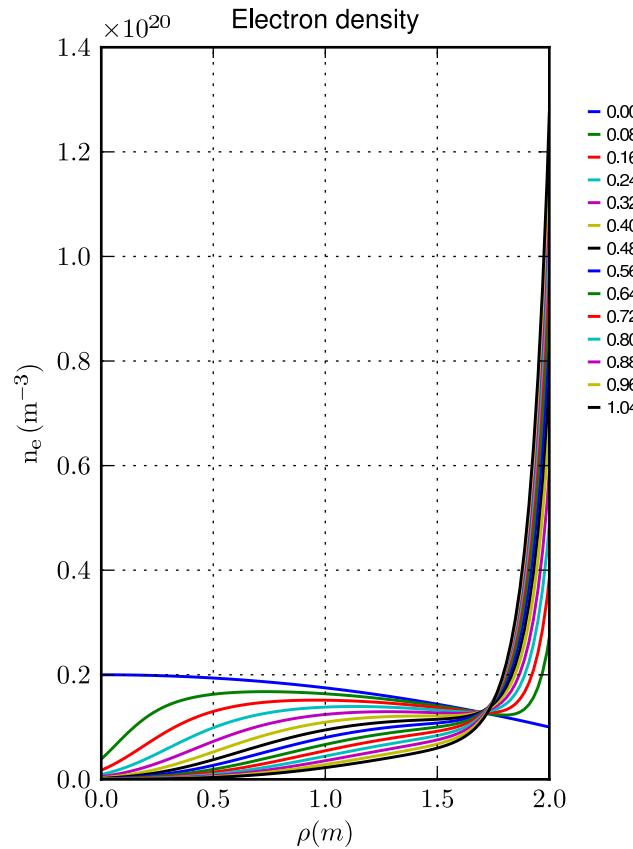
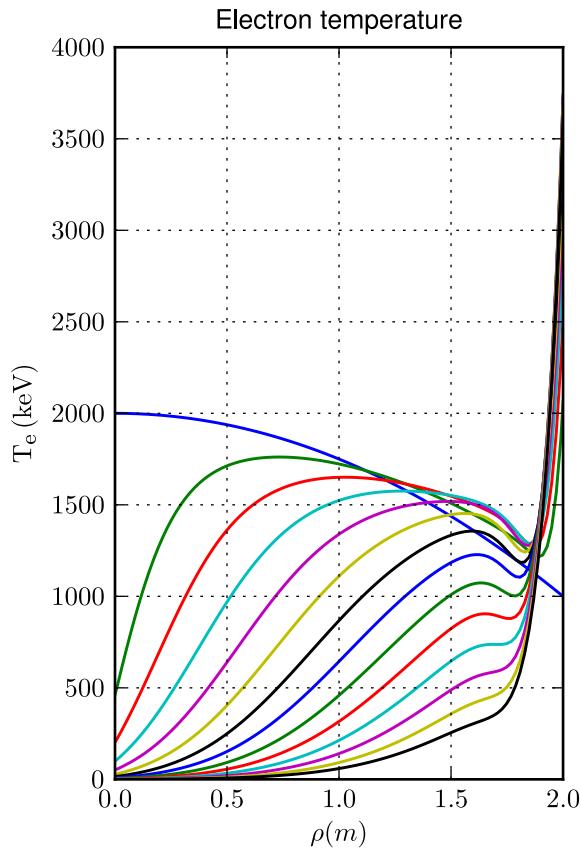
Comparison with asymptotic solution (electrons and ions); total time and zoom over time



### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: total simulation time/10



Legend for parameters:

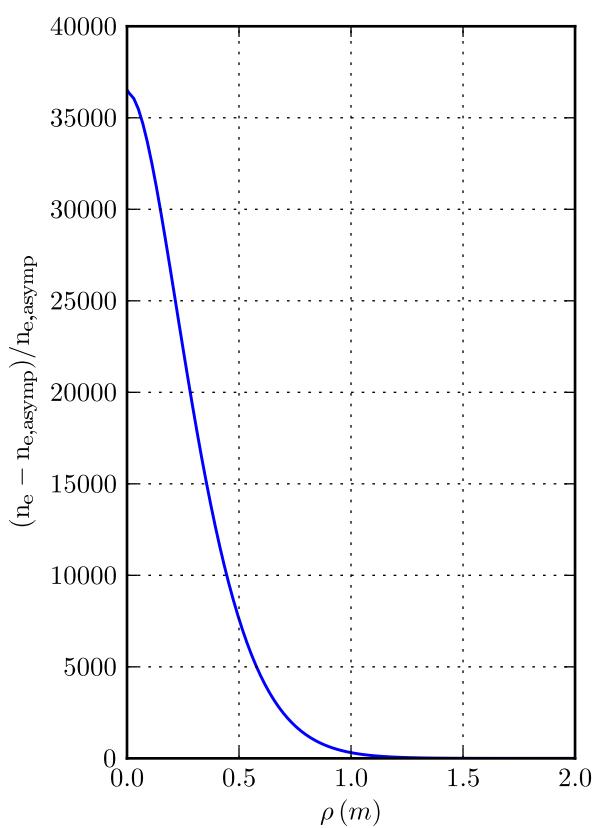
- 0.00
- 0.08
- 0.16
- 0.24
- 0.32
- 0.40
- 0.48
- 0.56
- 0.64
- 0.72
- 0.80
- 0.88
- 0.96
- 1.04

### Profiles

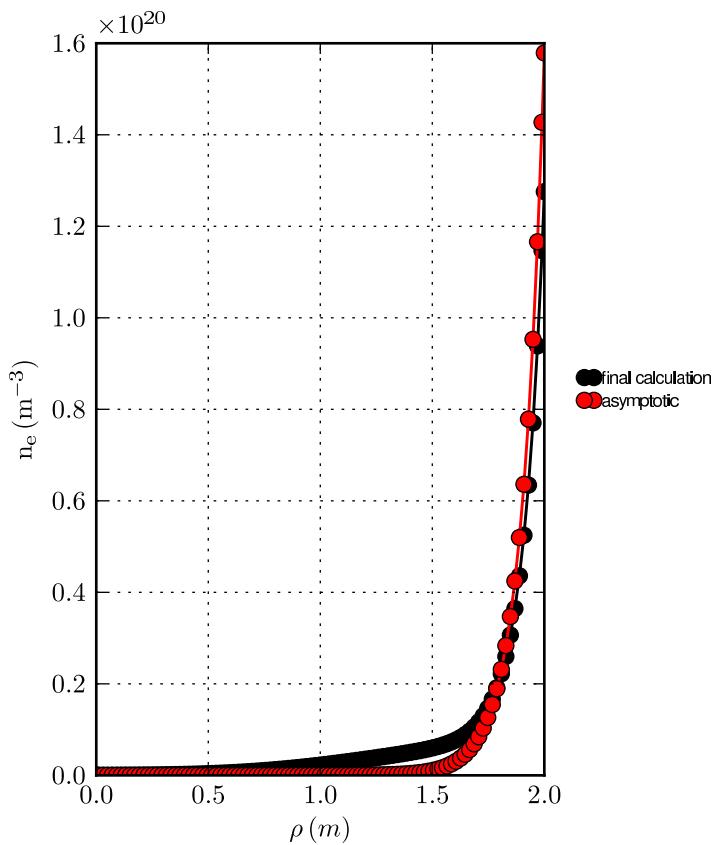
[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Comparison with asymptotic solution

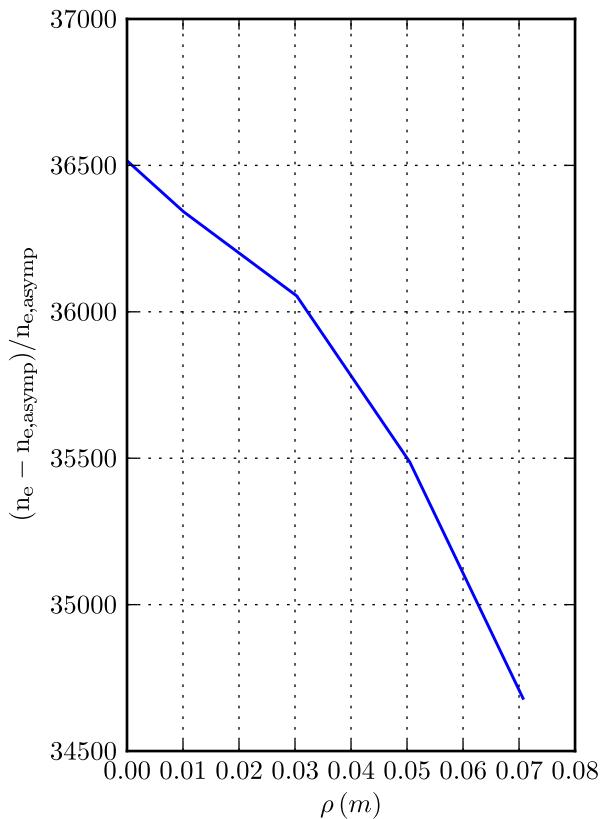
Electron density relative error



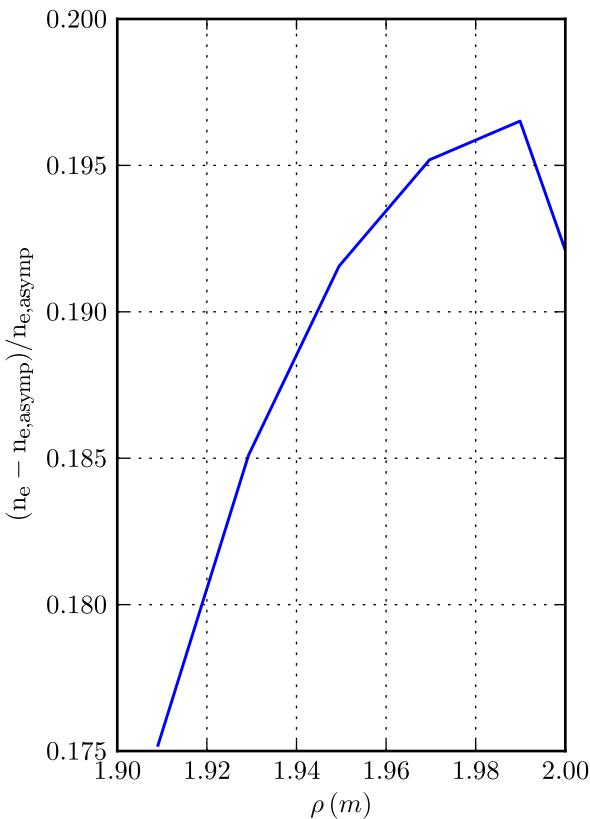
Electron density



Error: zoom over axis



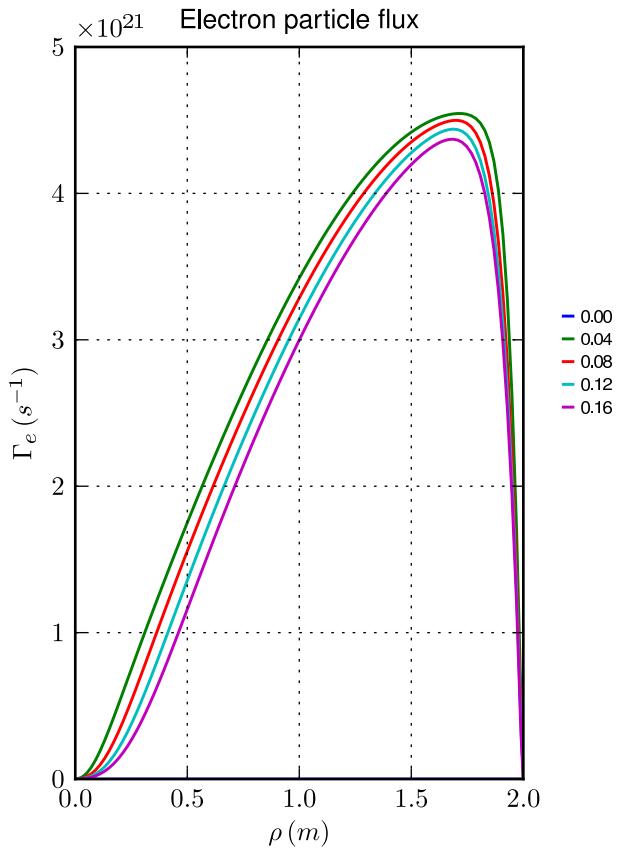
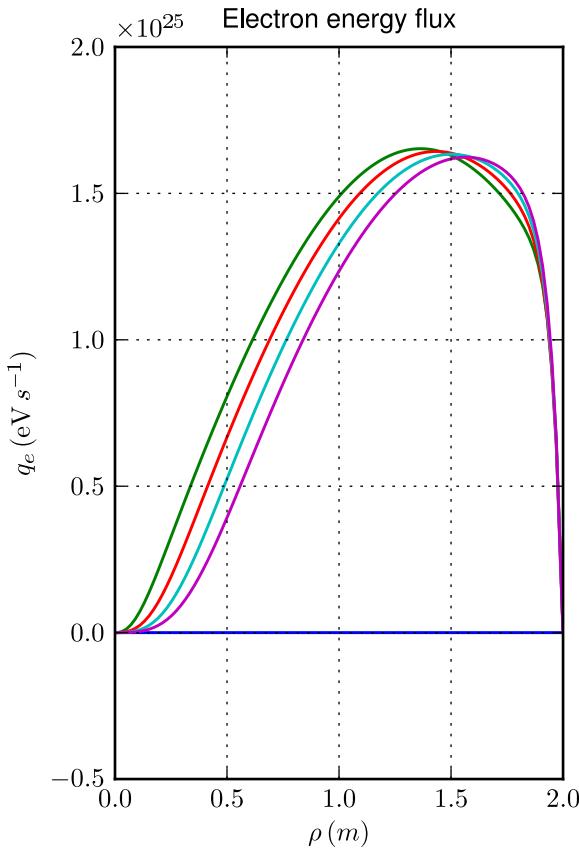
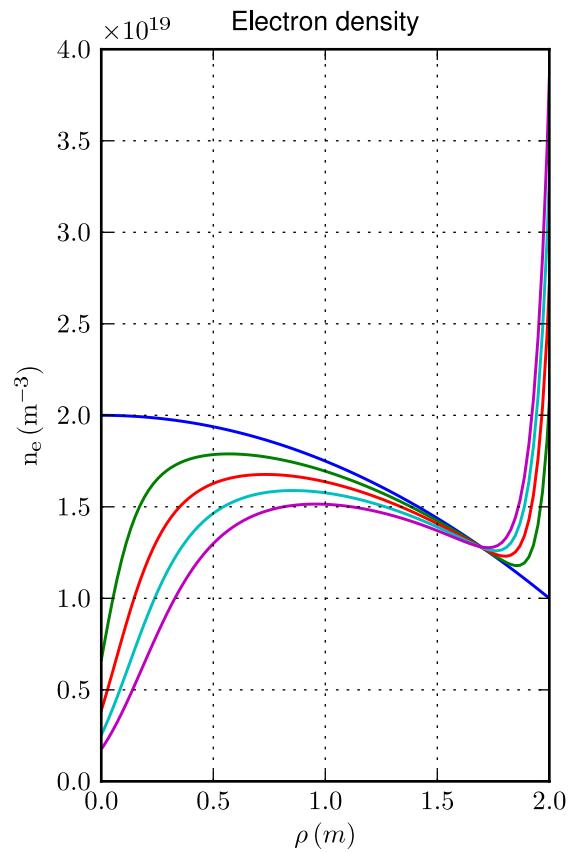
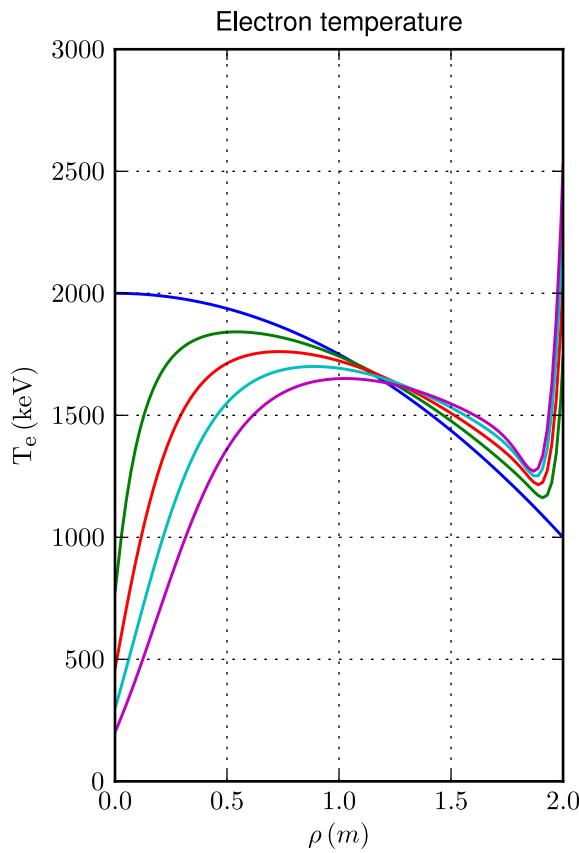
Error: zoom over edge



### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

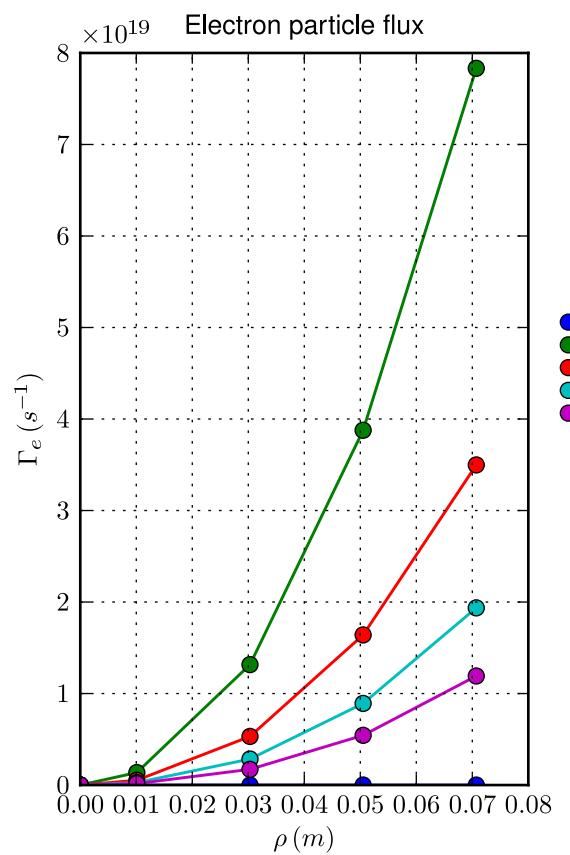
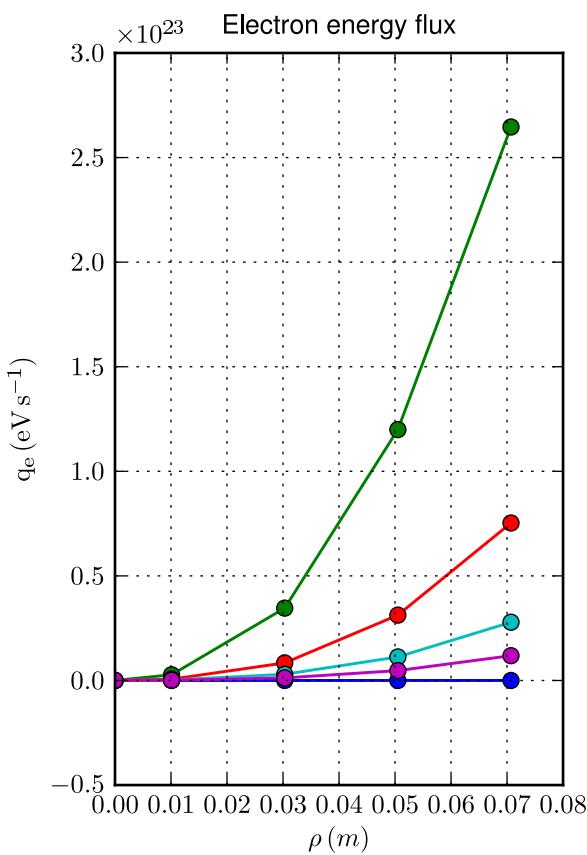
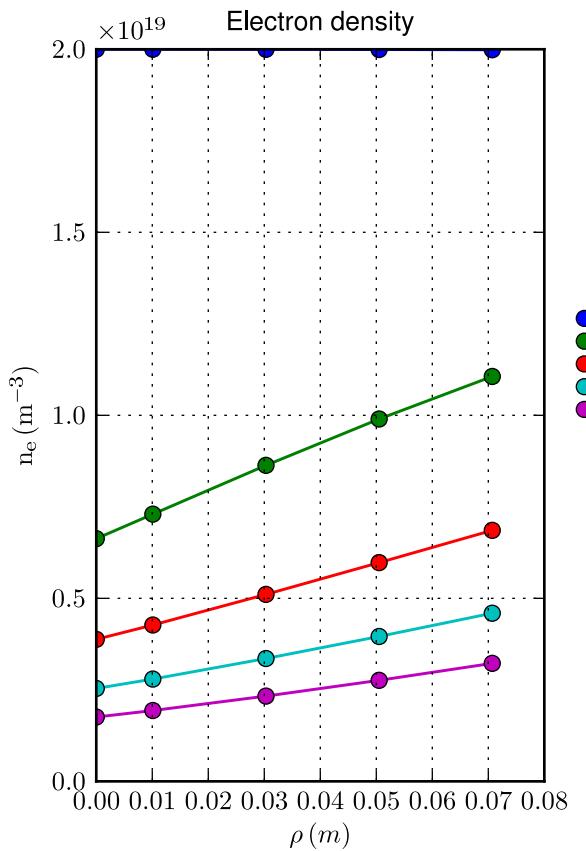
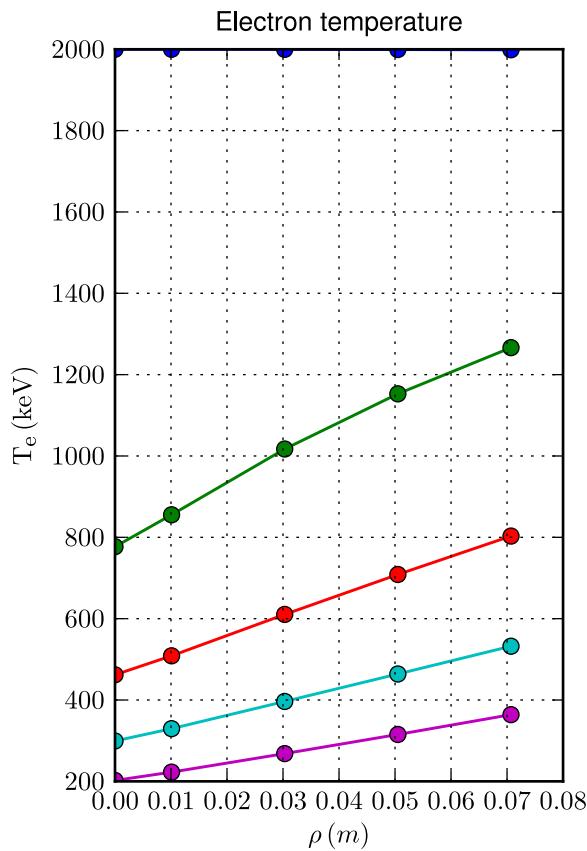


### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over magnetic axis

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

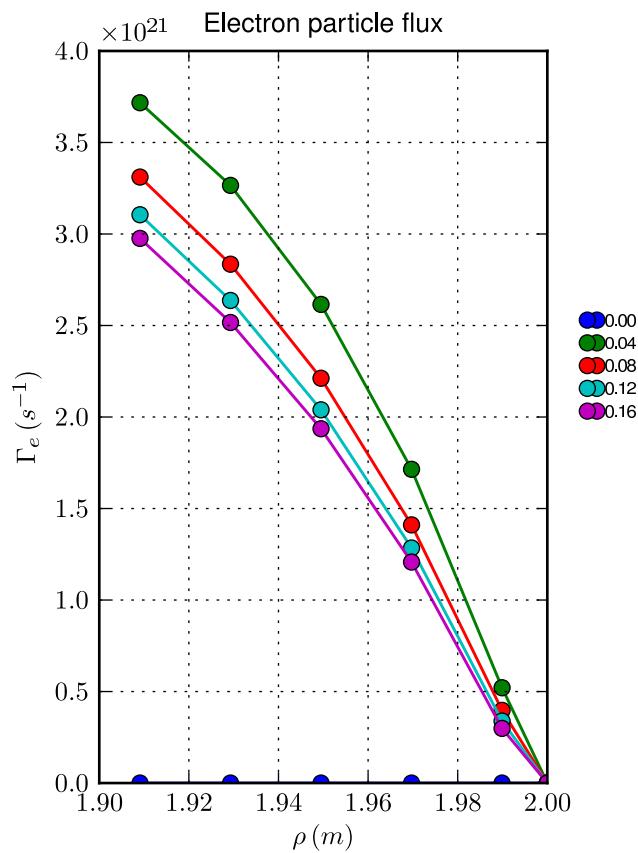
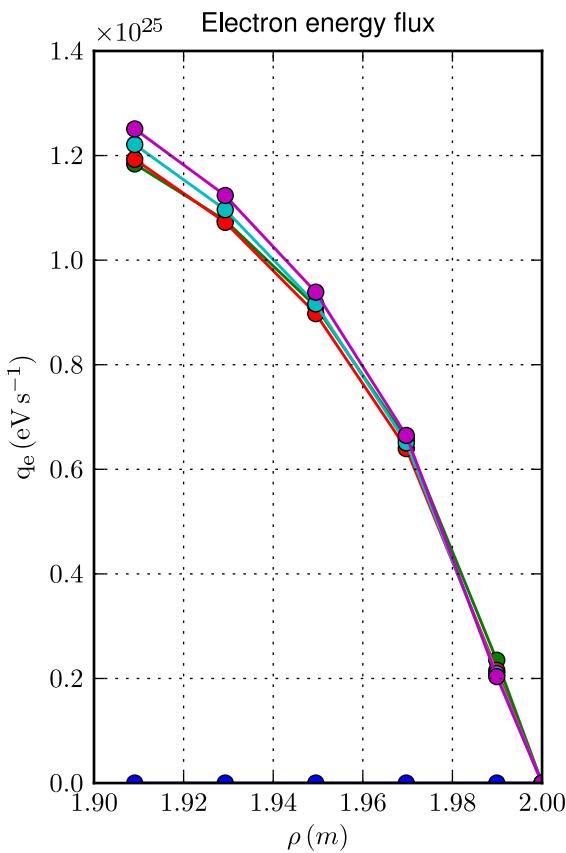
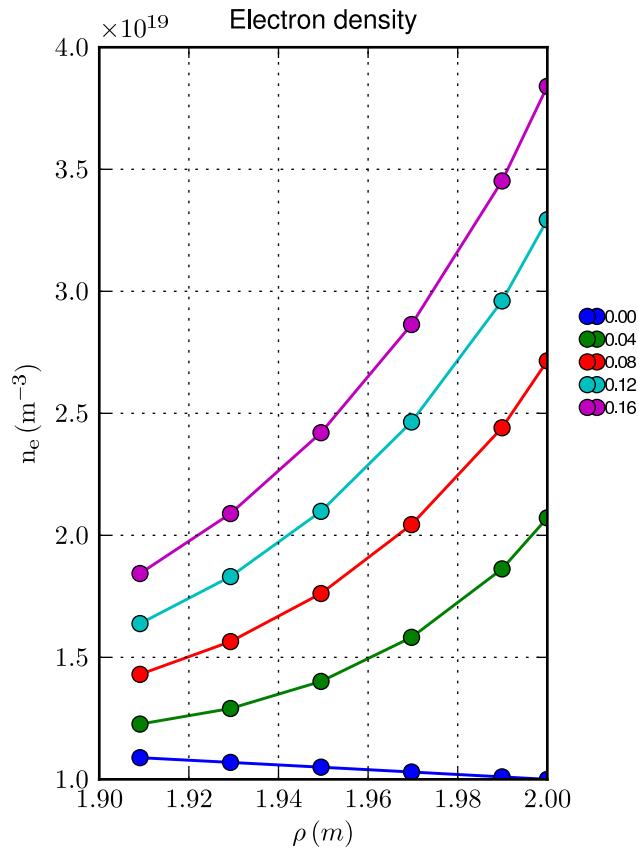
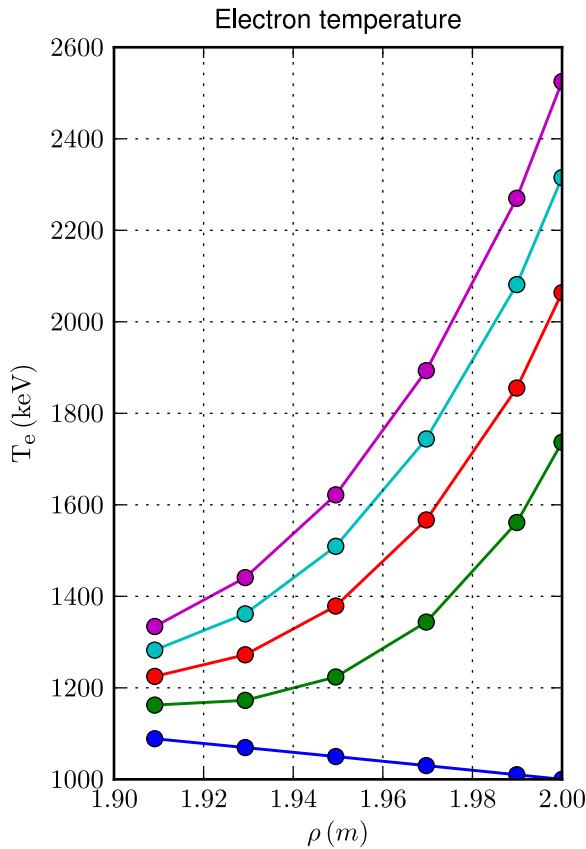


### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over edge

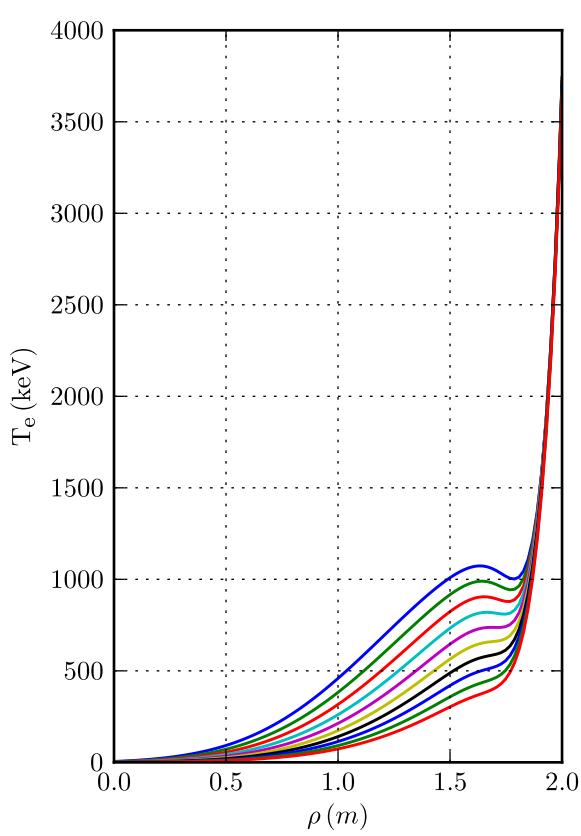
Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$



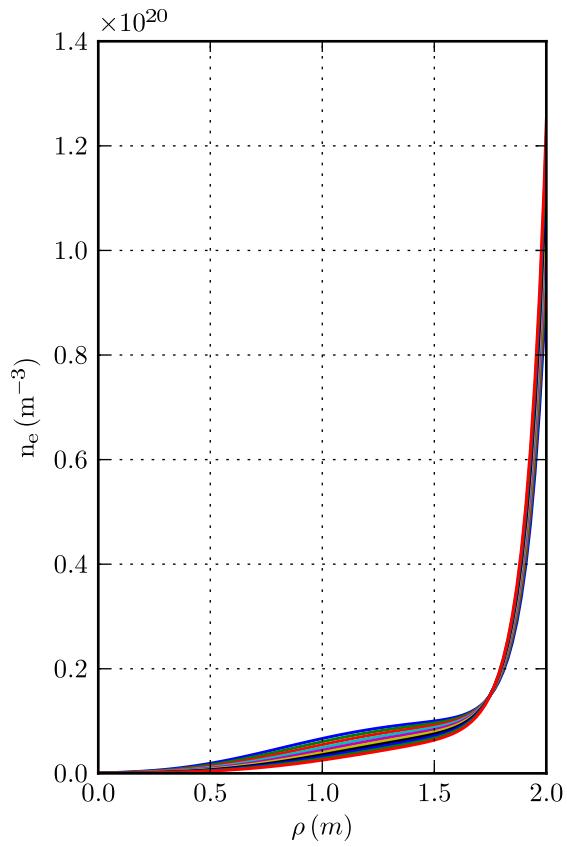
### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Time sampling: last 10 time slices

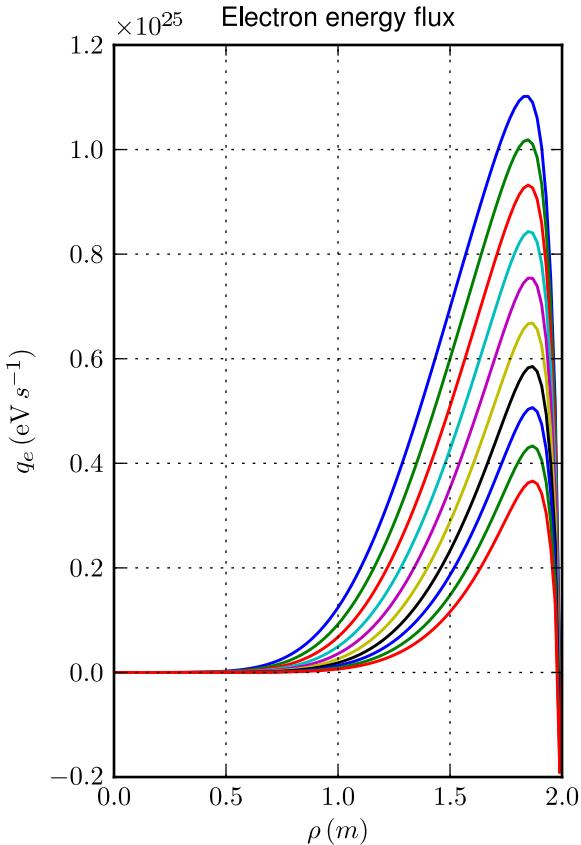
Electron temperature



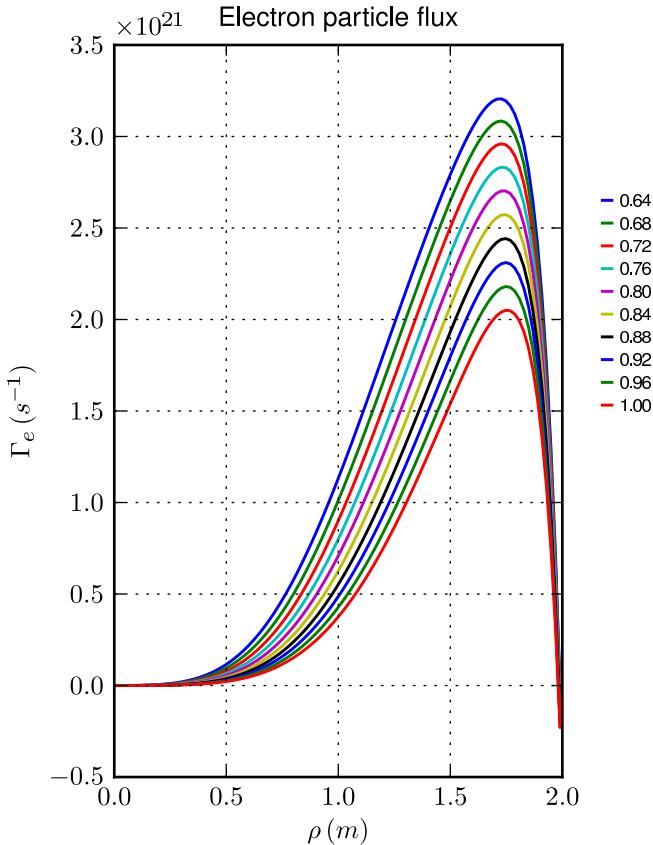
Electron density



Electron energy flux

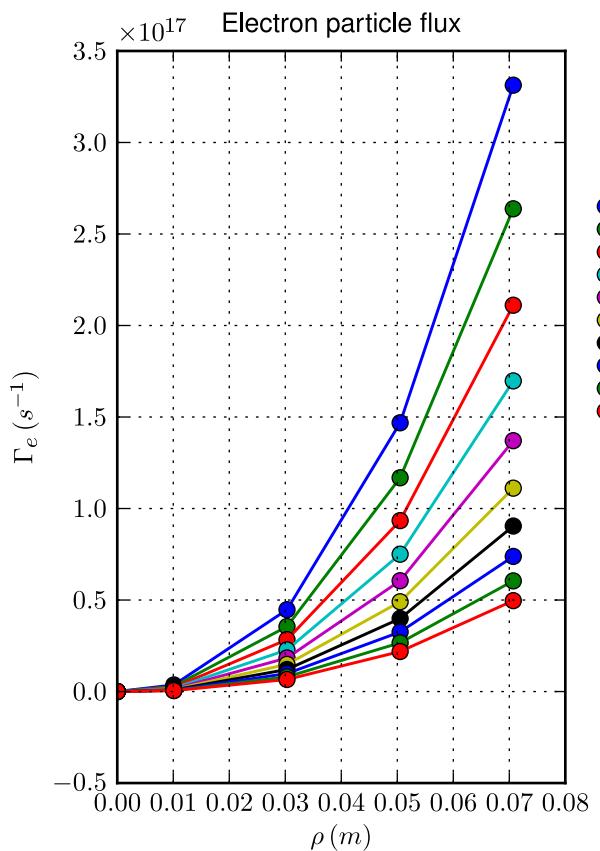
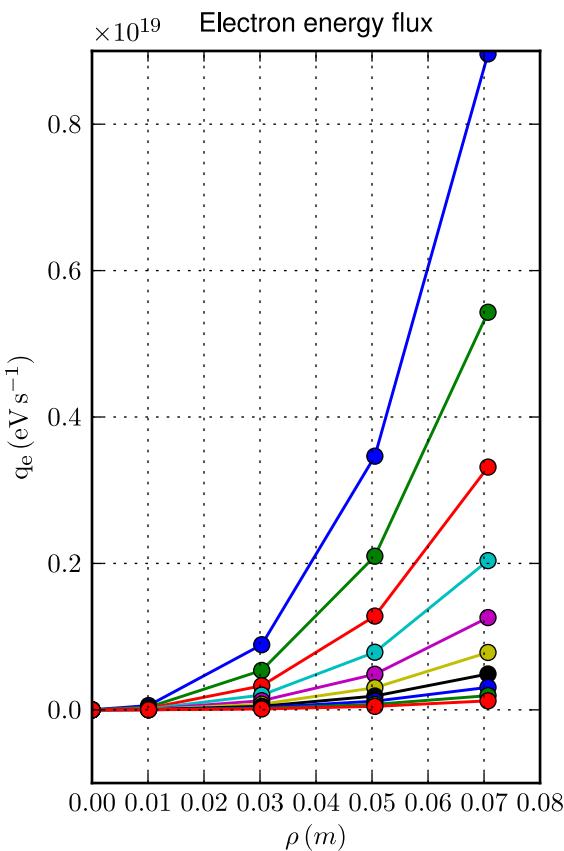
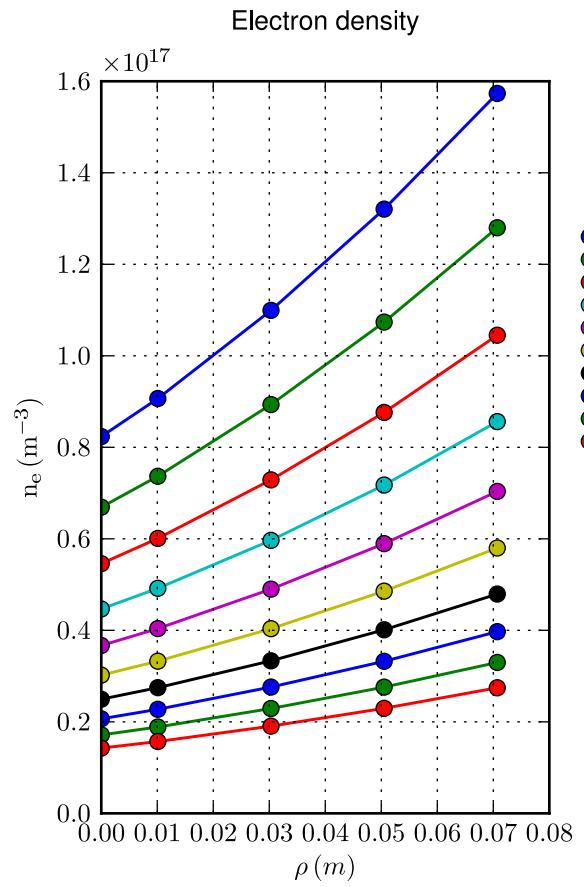
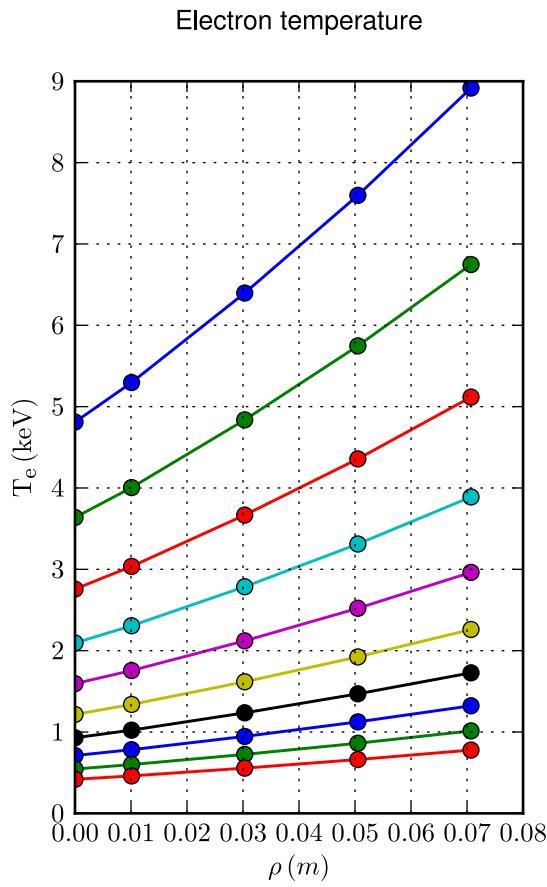


Electron particle flux



### Profiles

[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Spatial zoom over magnetic axis; time sampling: last 10 time slices

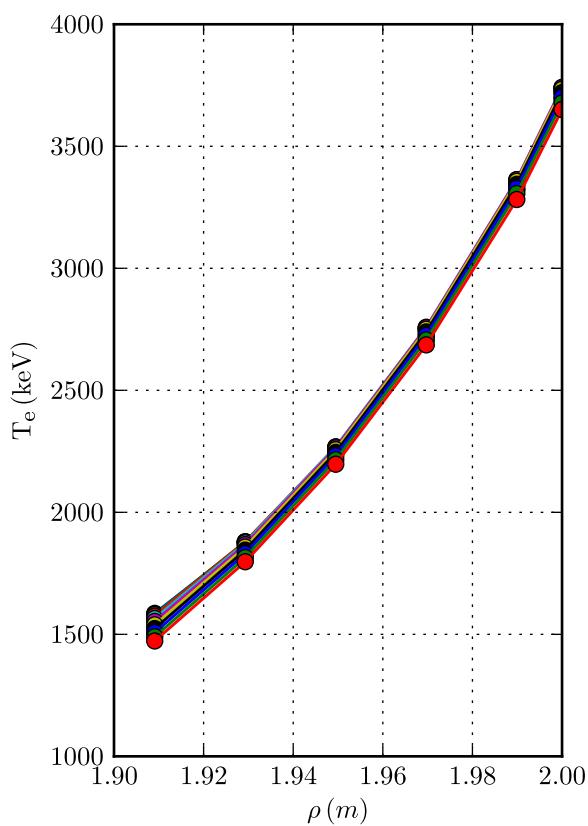


### Profiles

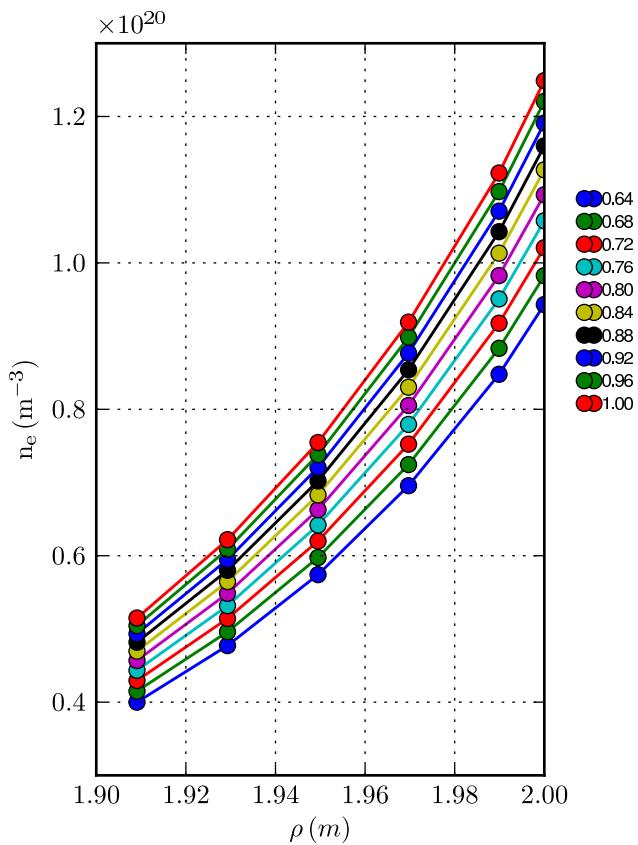
[Case: I.1.5.c, Solver: 4,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

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

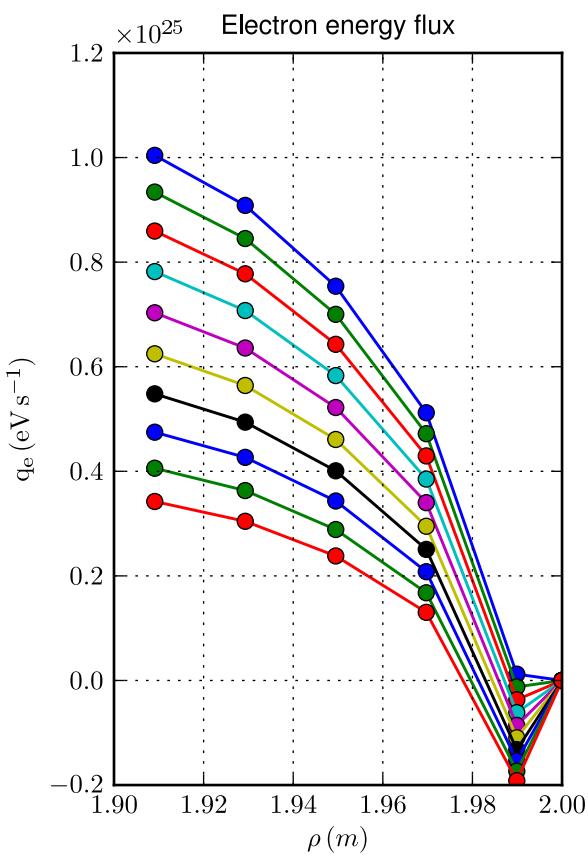
Electron temperature



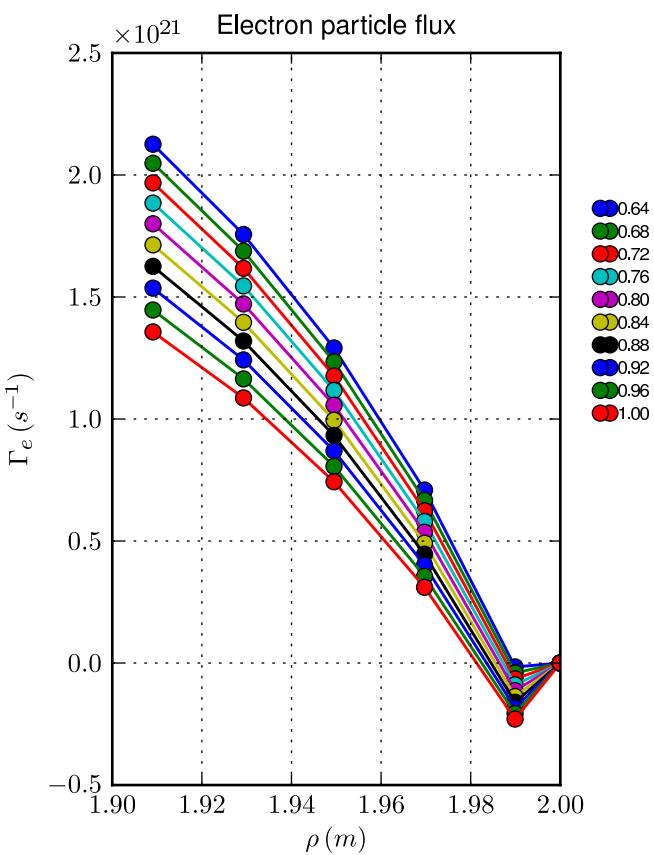
Electron density



Electron energy flux



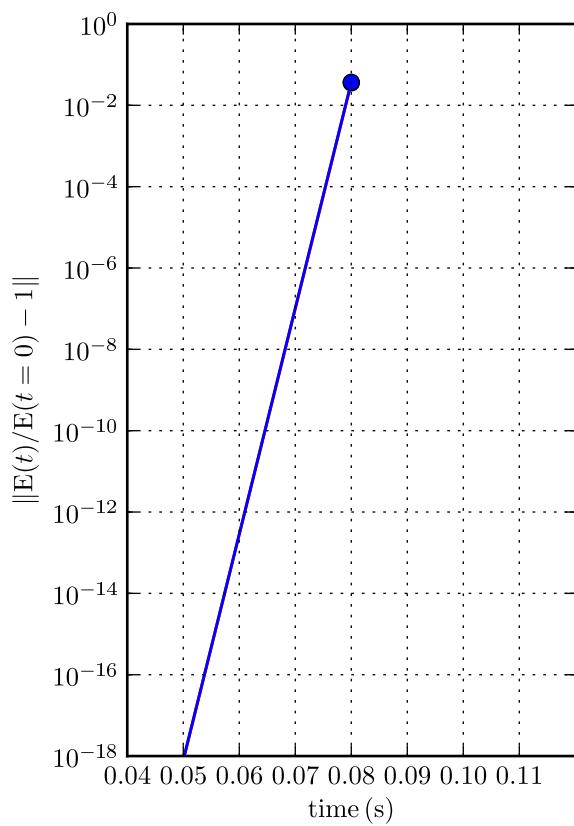
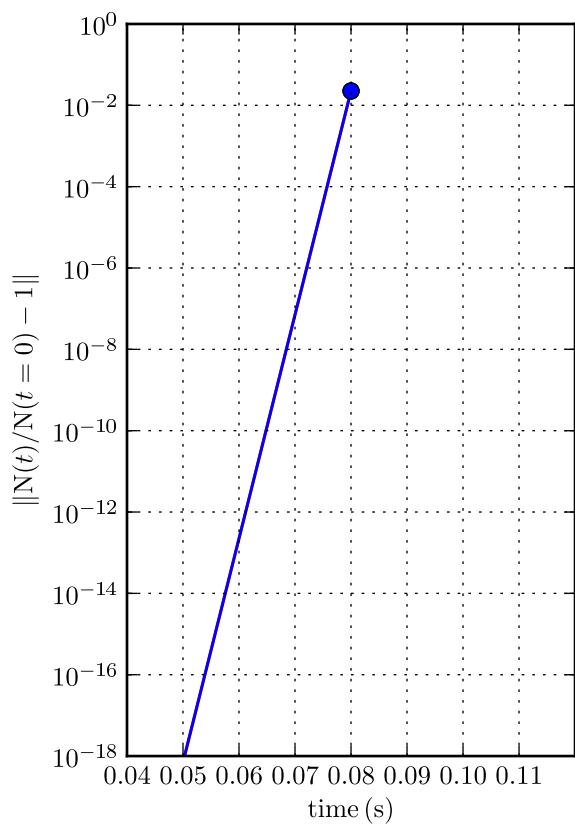
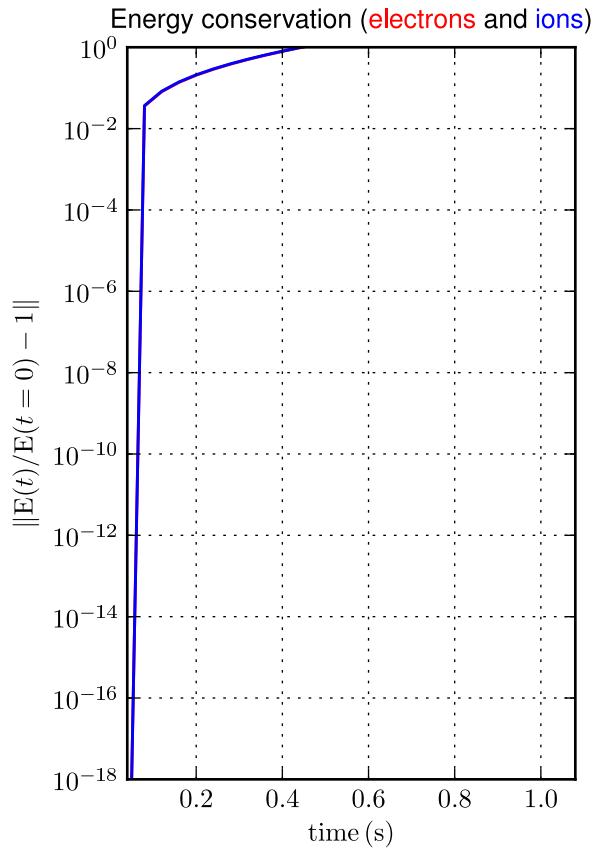
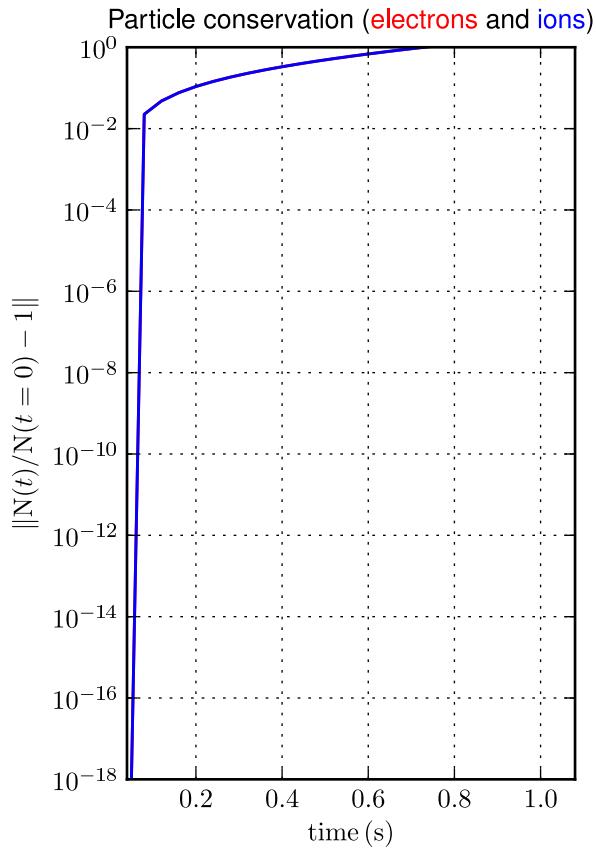
Electron particle flux



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

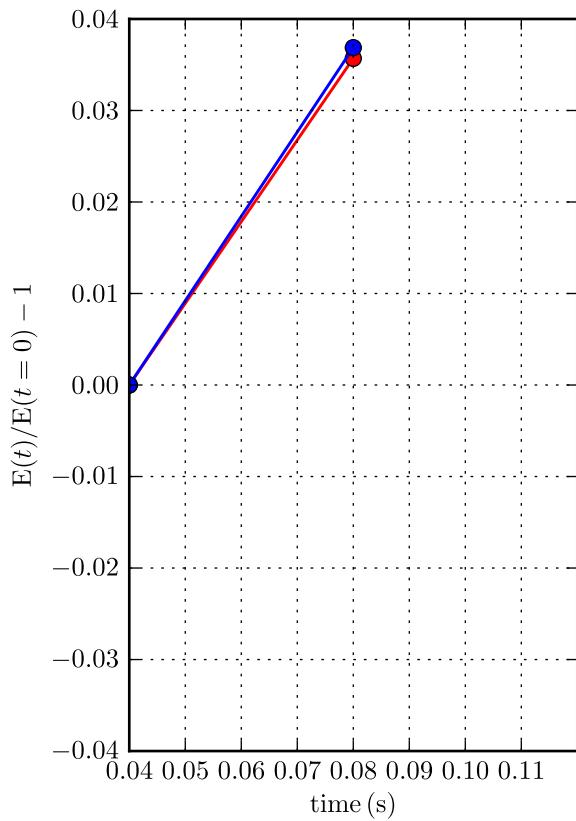
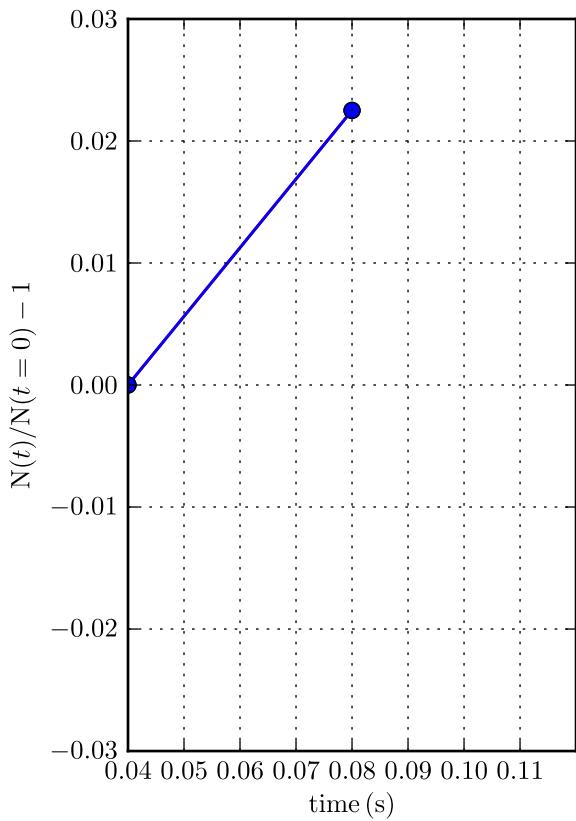
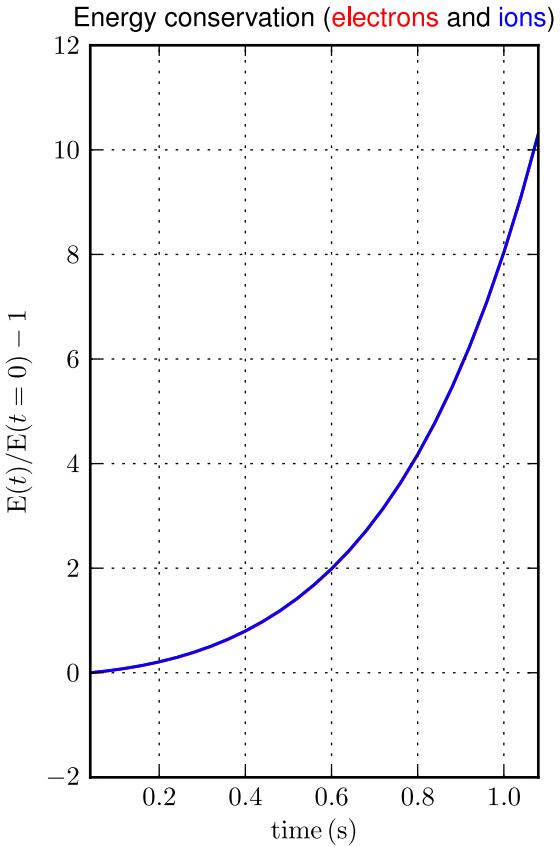
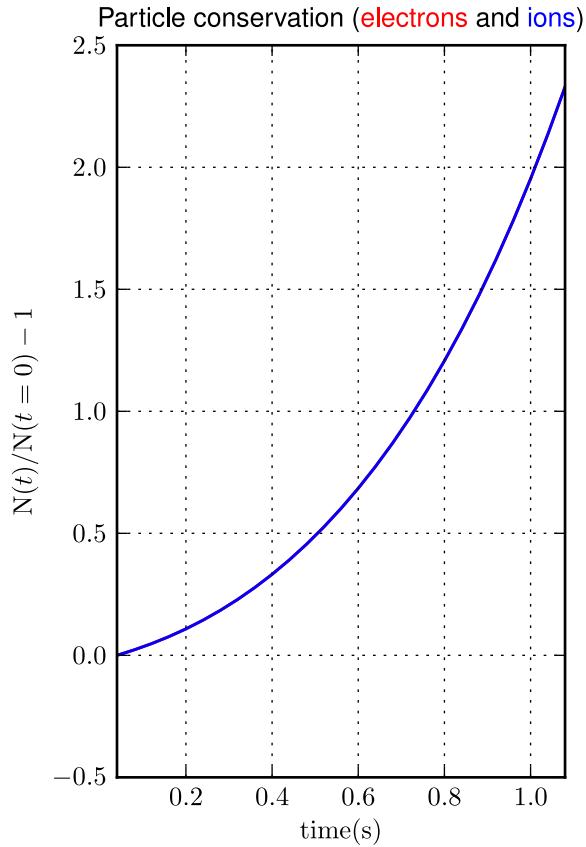
Comparison with initial solution - log scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

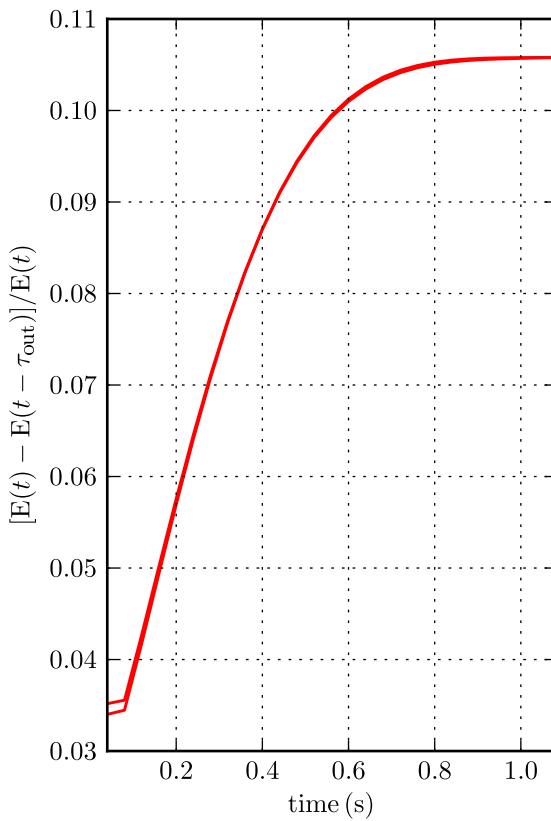
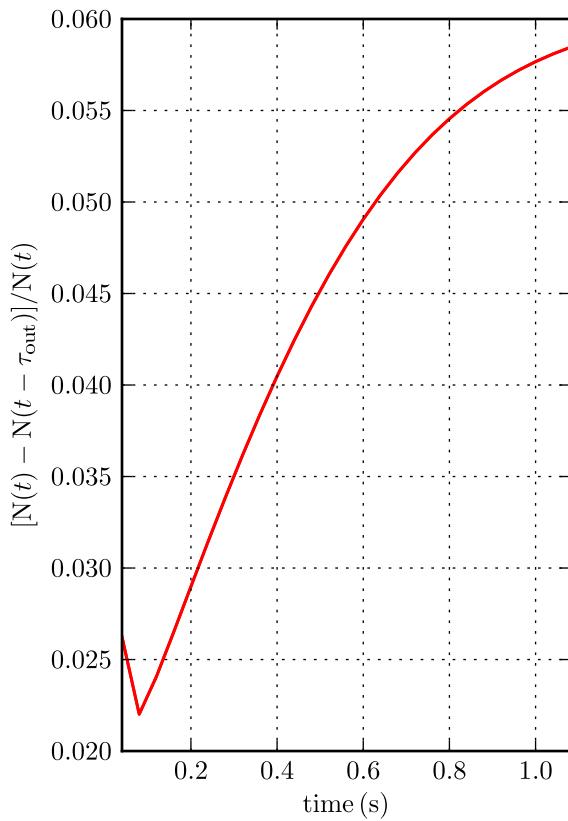
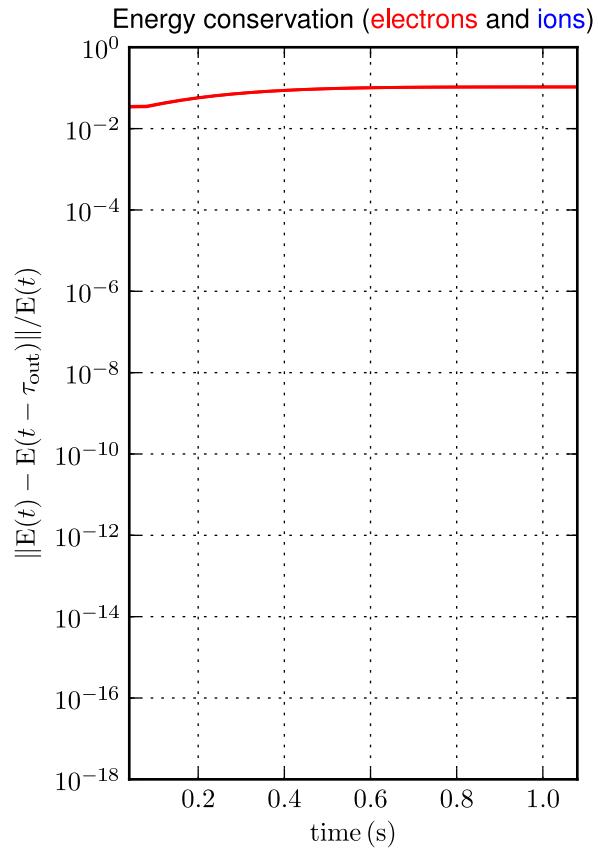
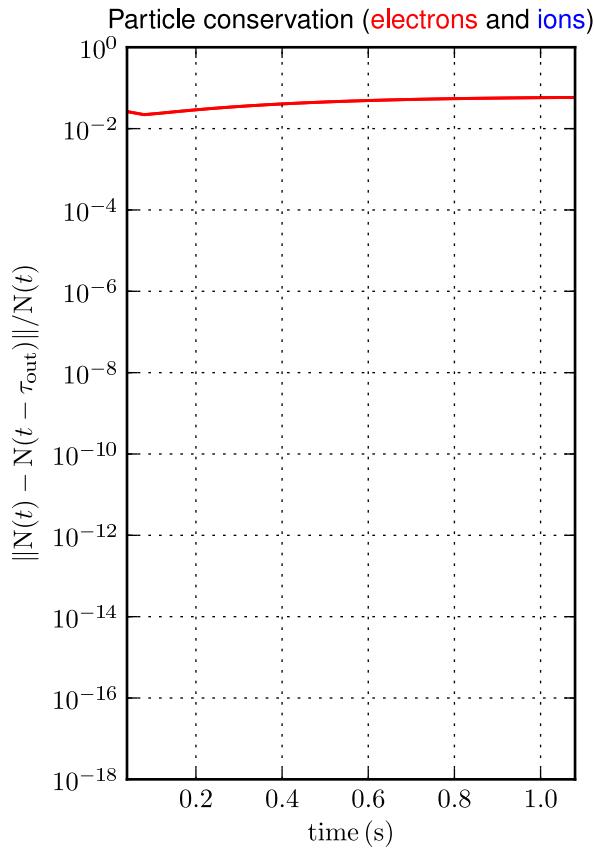
Comparison with initial solution - linear scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

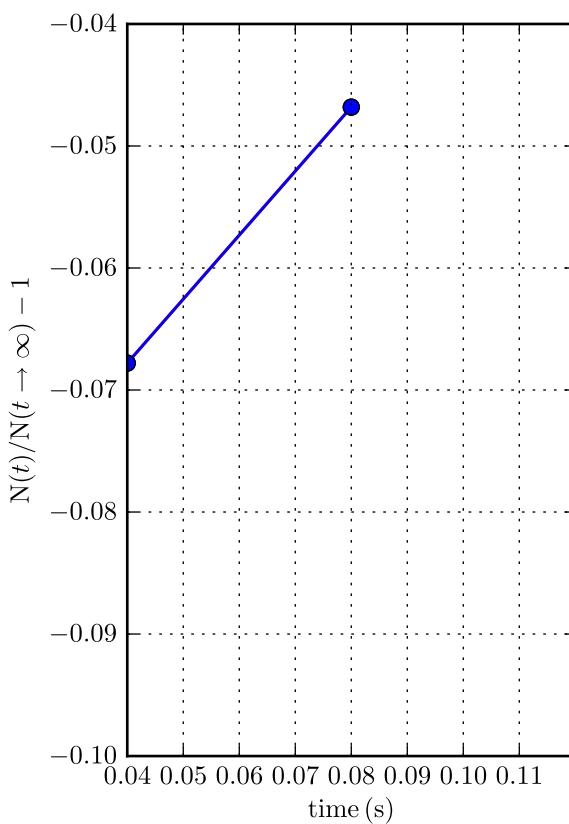
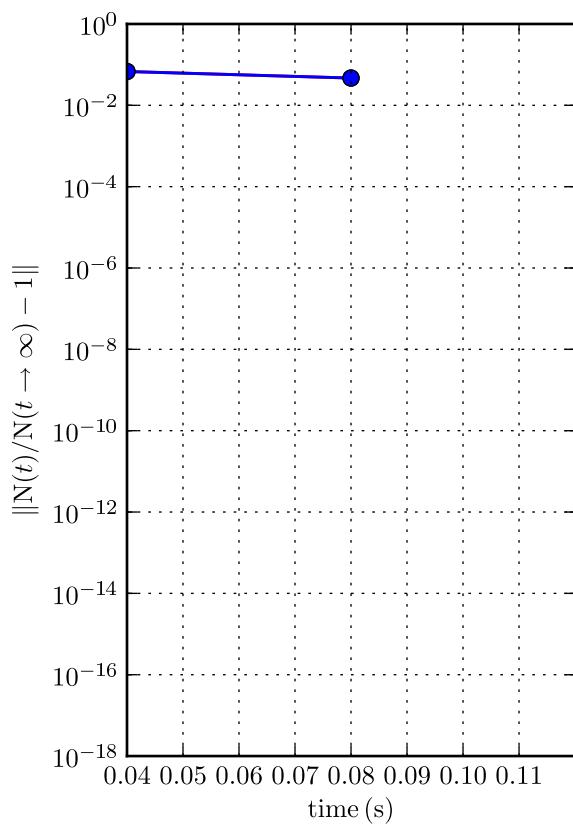
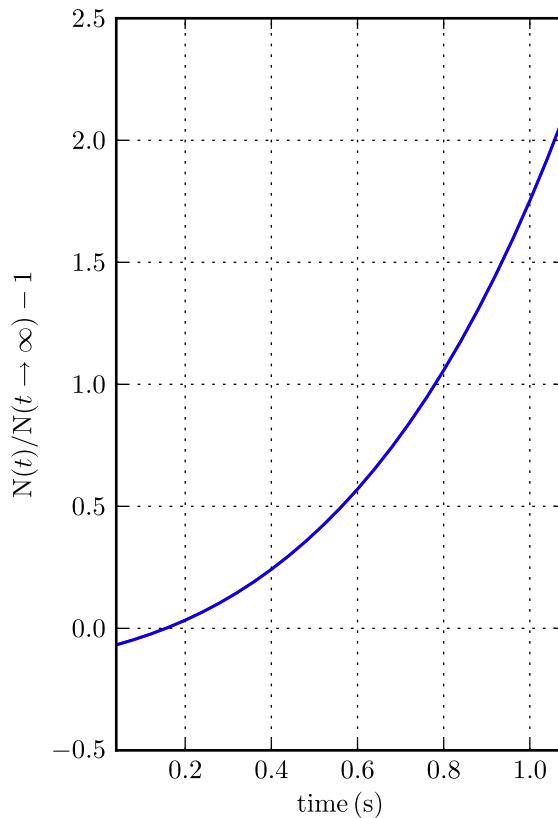
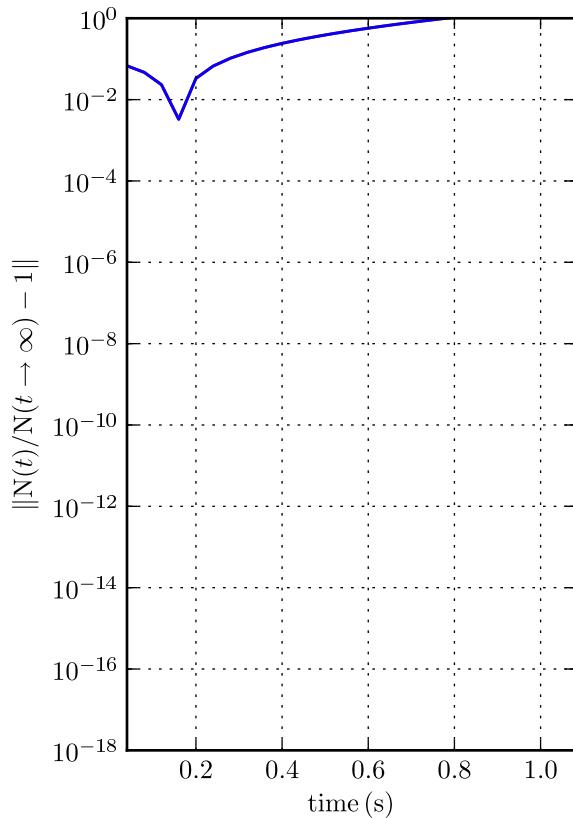
Comparison with previous time-sampled ( $\tau_{\text{out}}$ ) solution - log and linear scales



### Particle conservation

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

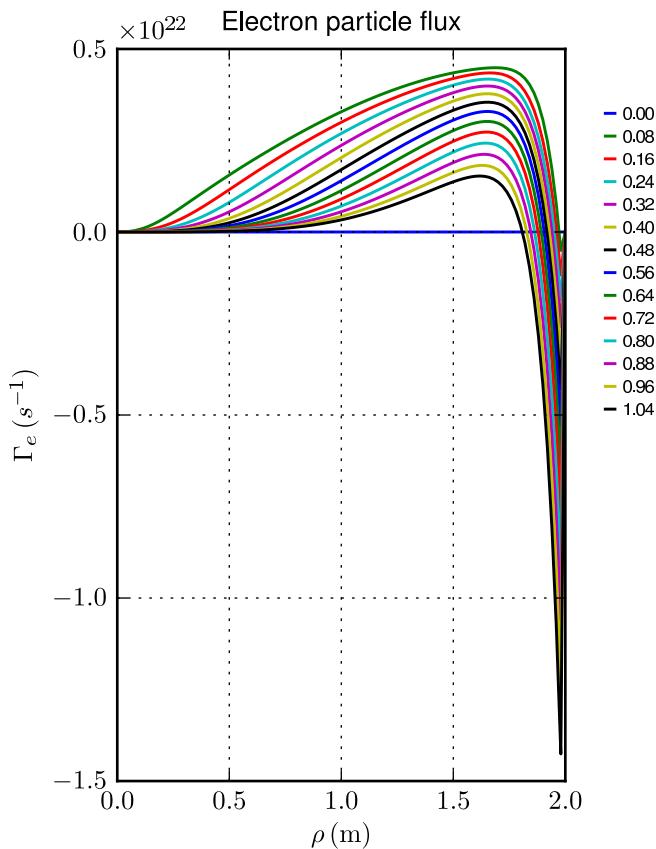
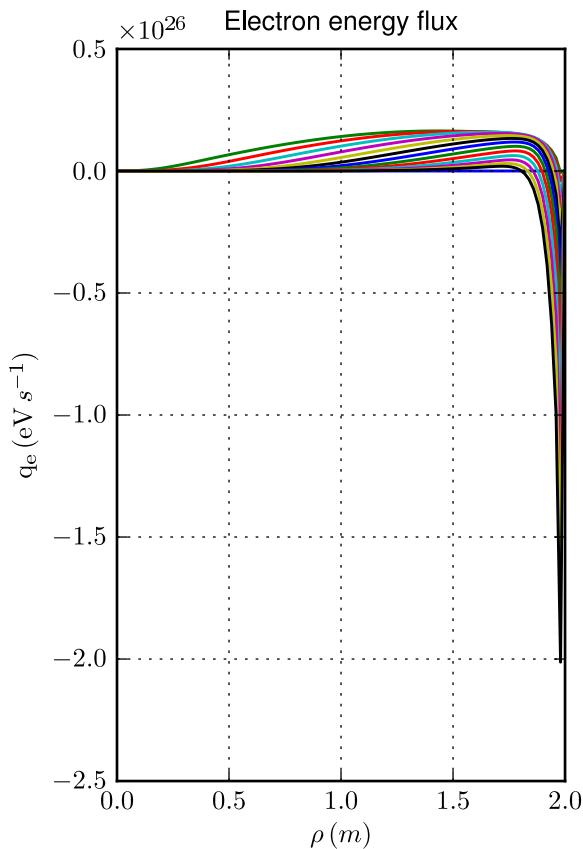
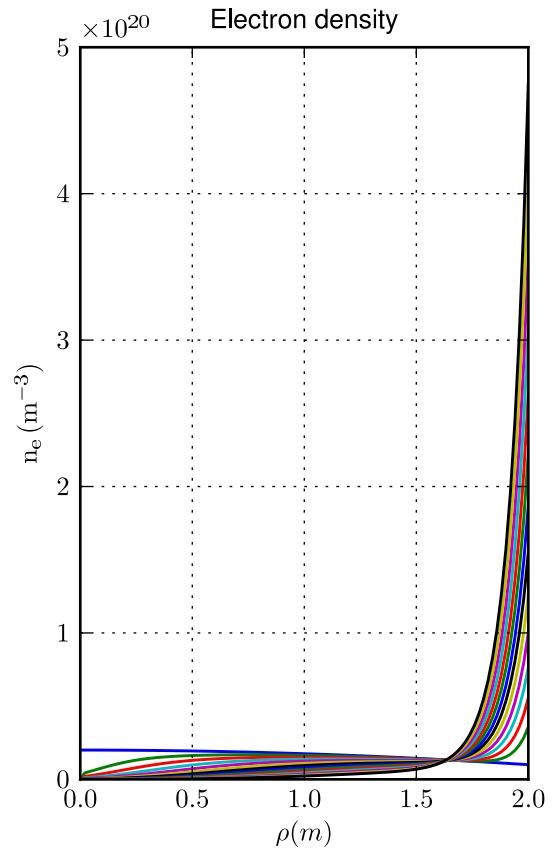
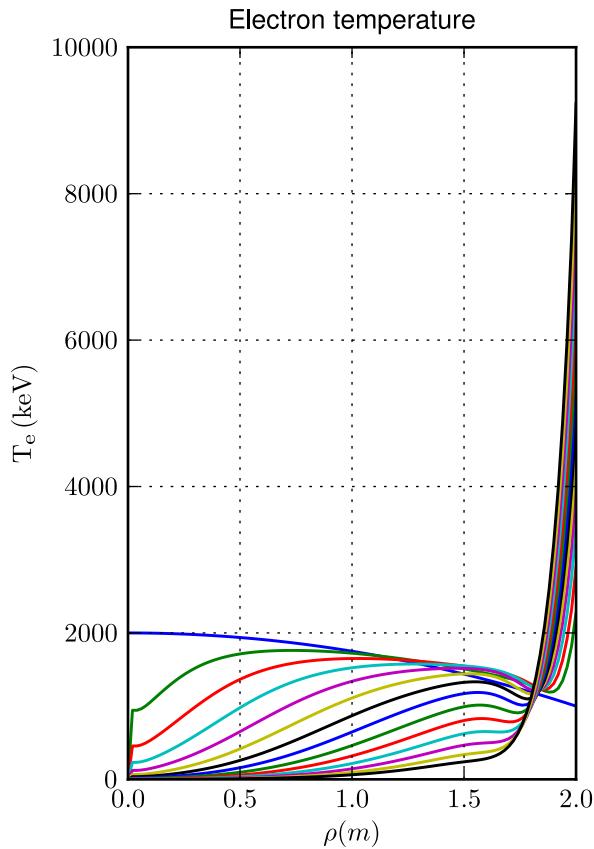
Comparison with asymptotic solution (electrons and ions); total time and zoom over time



### Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: total simulation time/10



Legend for parameter values:

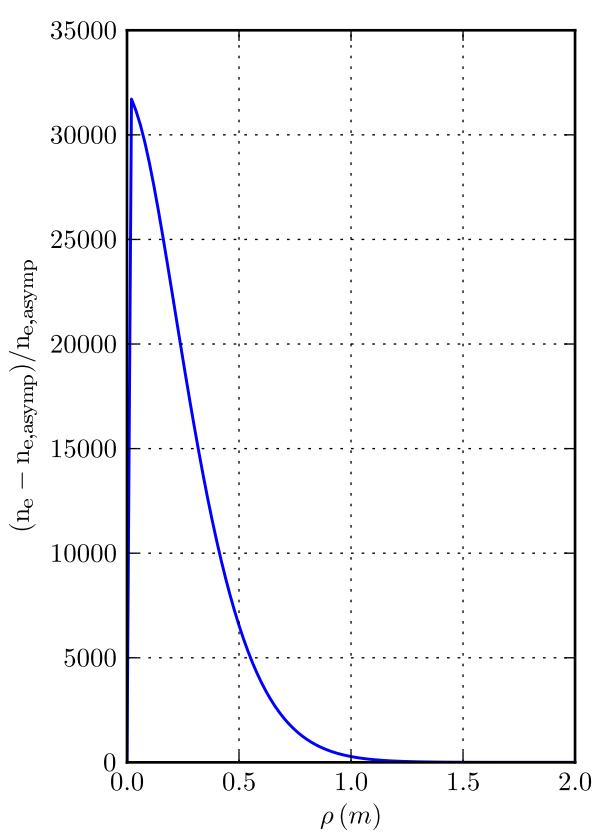
- 0.00
- 0.08
- 0.16
- 0.24
- 0.32
- 0.40
- 0.48
- 0.56
- 0.64
- 0.72
- 0.80
- 0.88
- 0.96
- 1.04

### Profiles

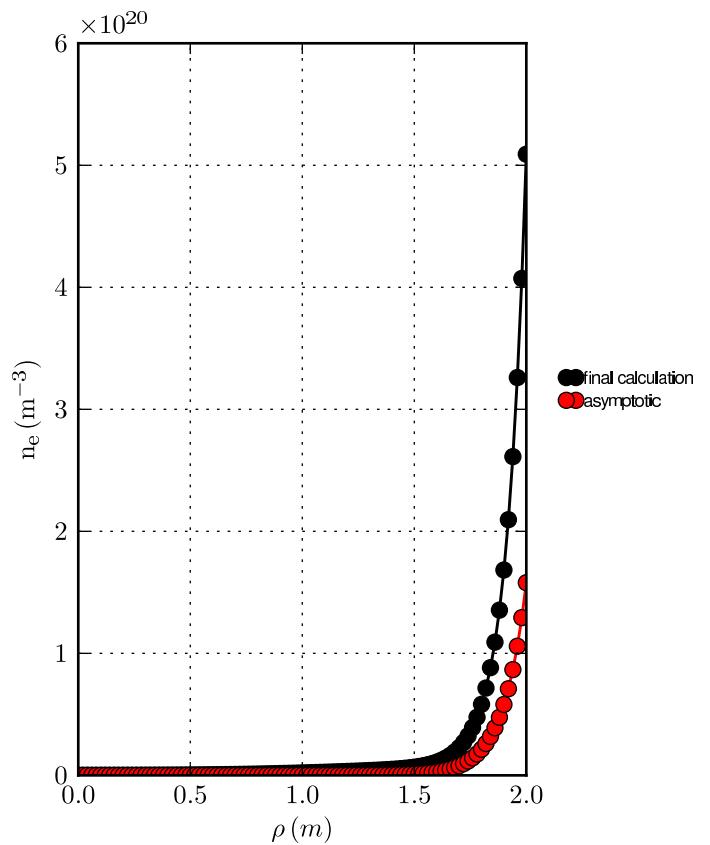
[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Comparison with asymptotic solution

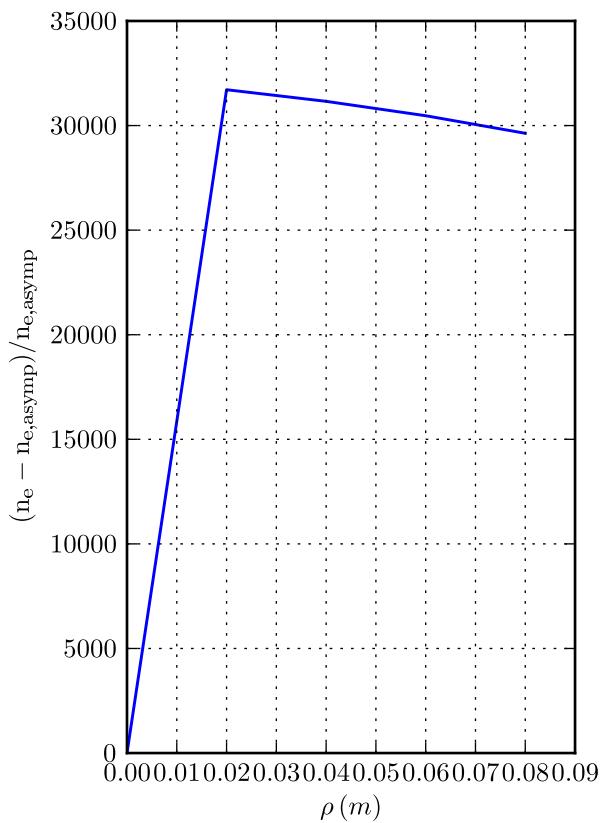
Electron density relative error



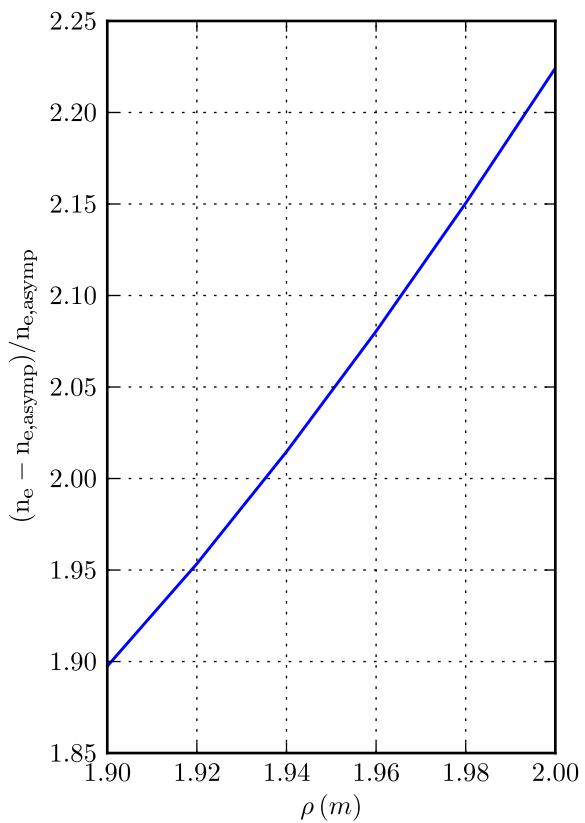
Electron density



Error: zoom over axis



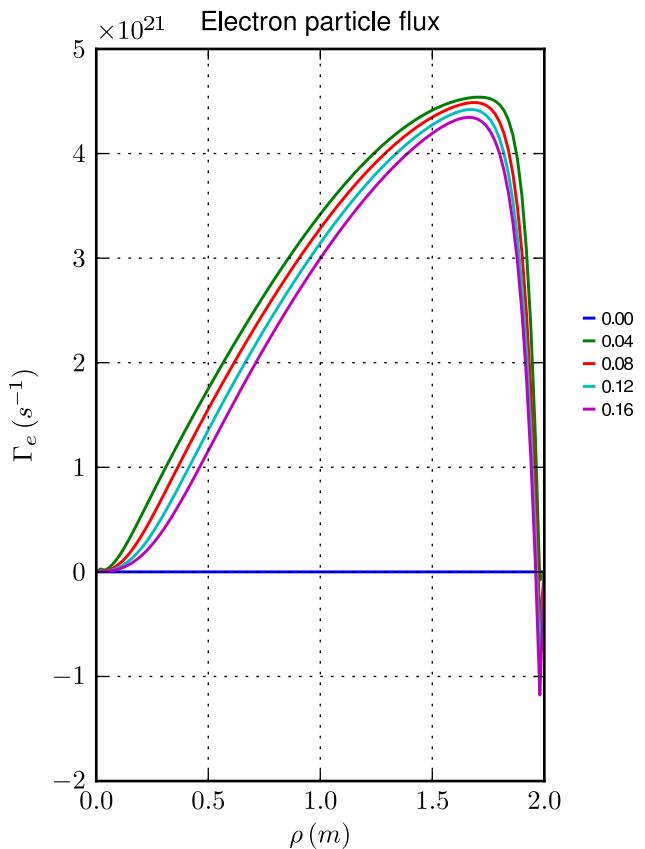
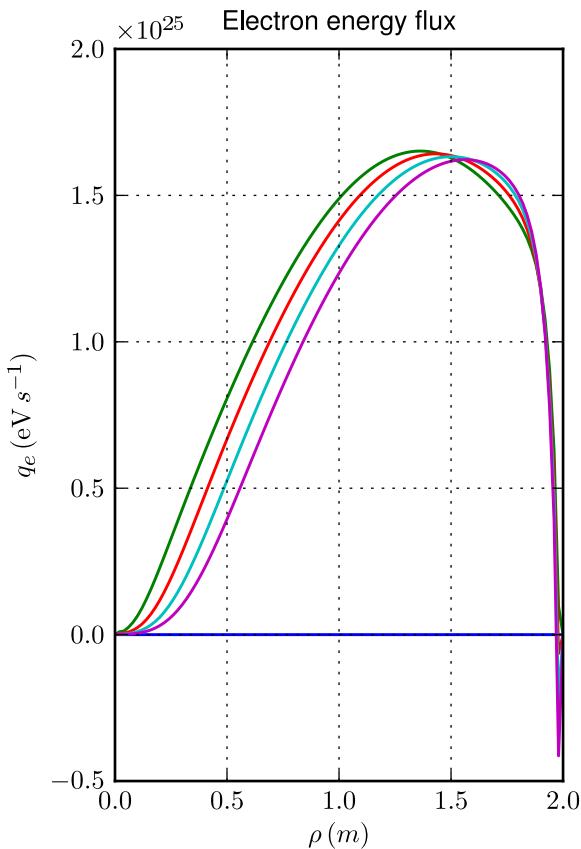
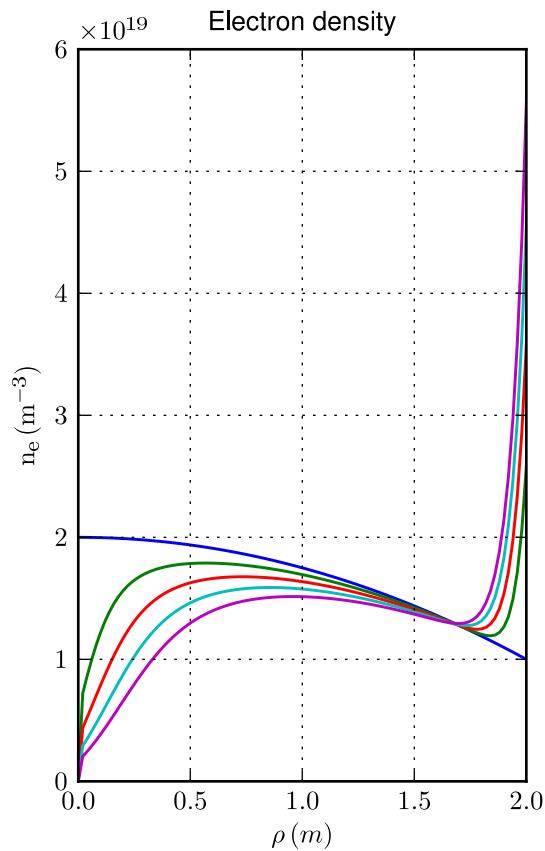
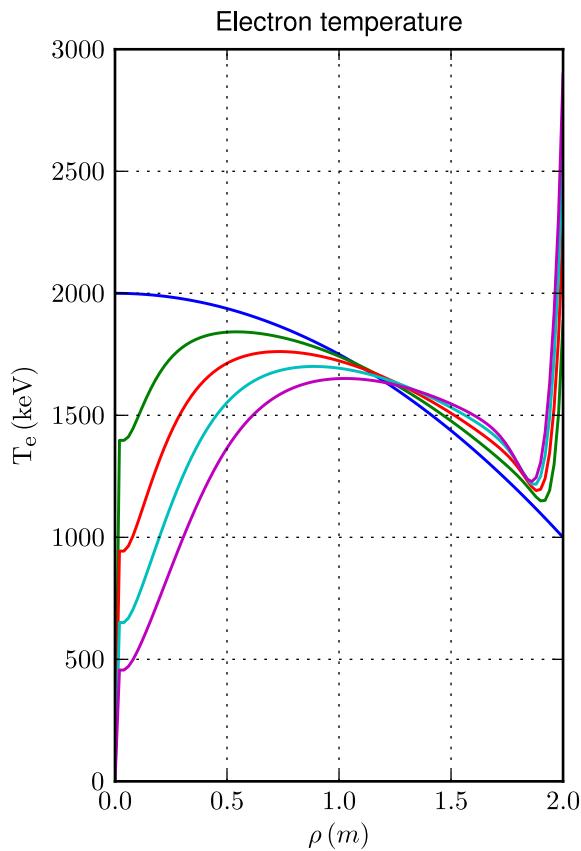
Error: zoom over edge



### Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

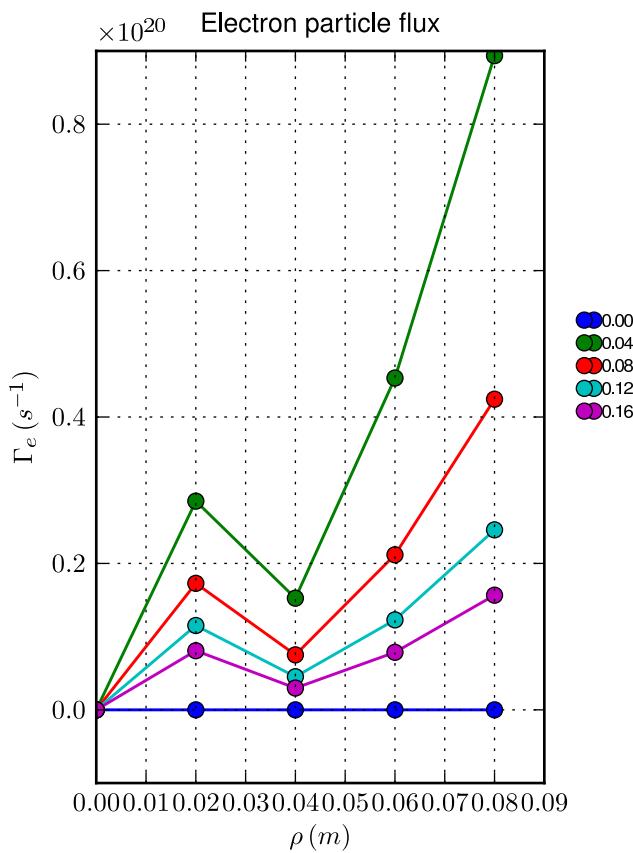
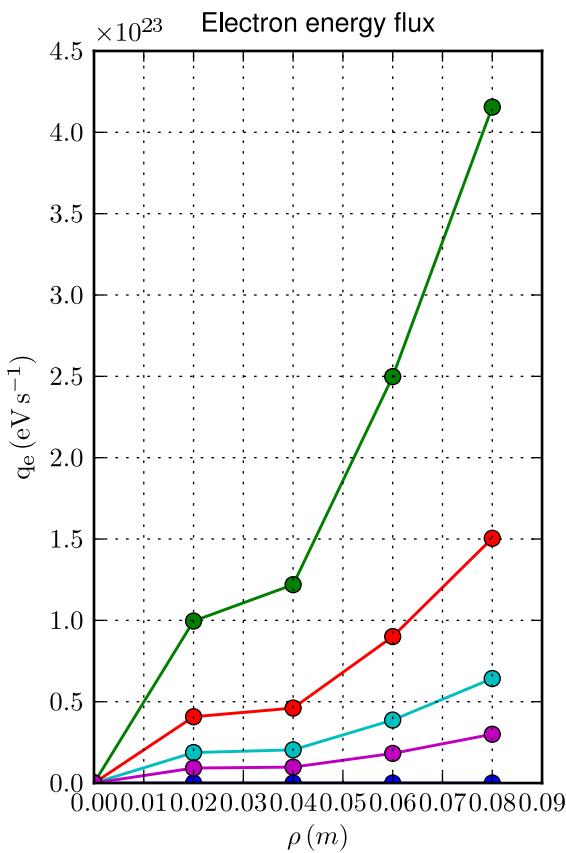
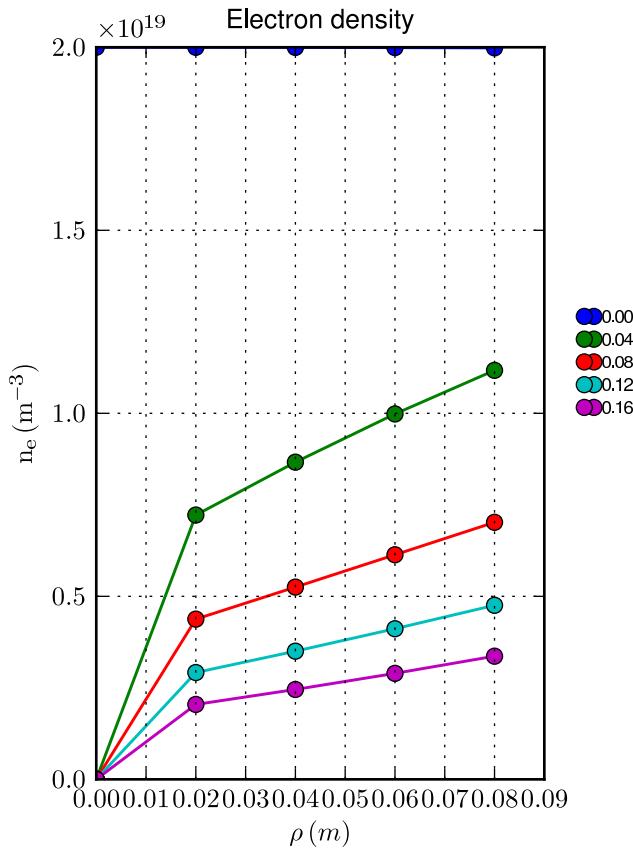
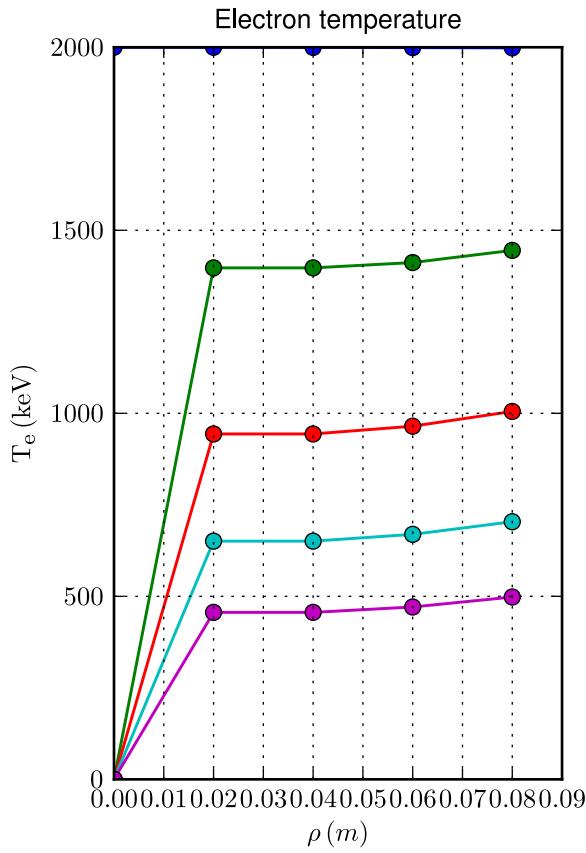


### Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over magnetic axis

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

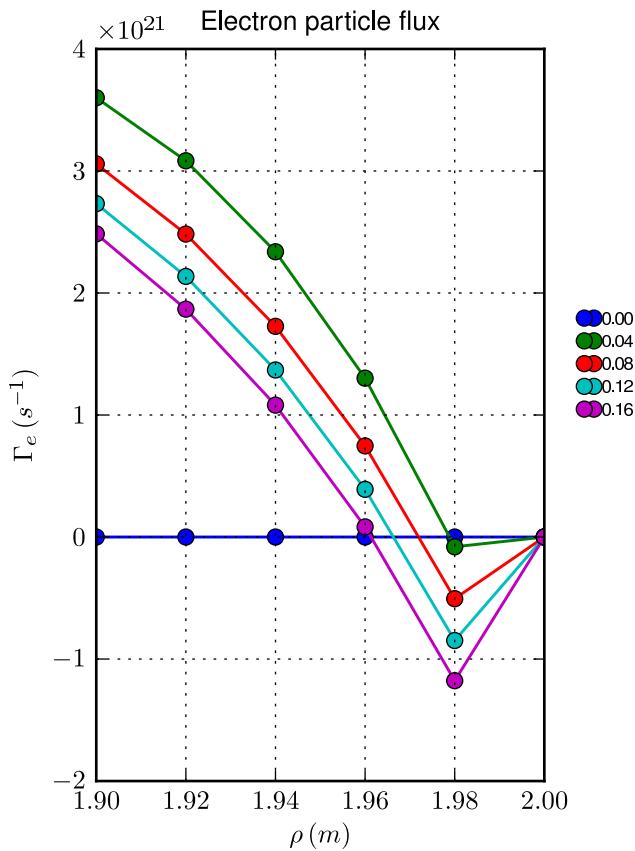
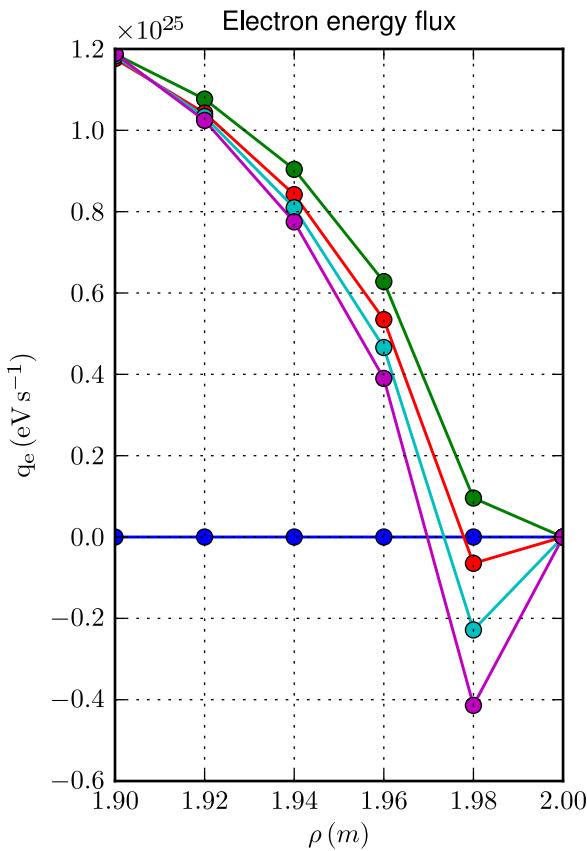
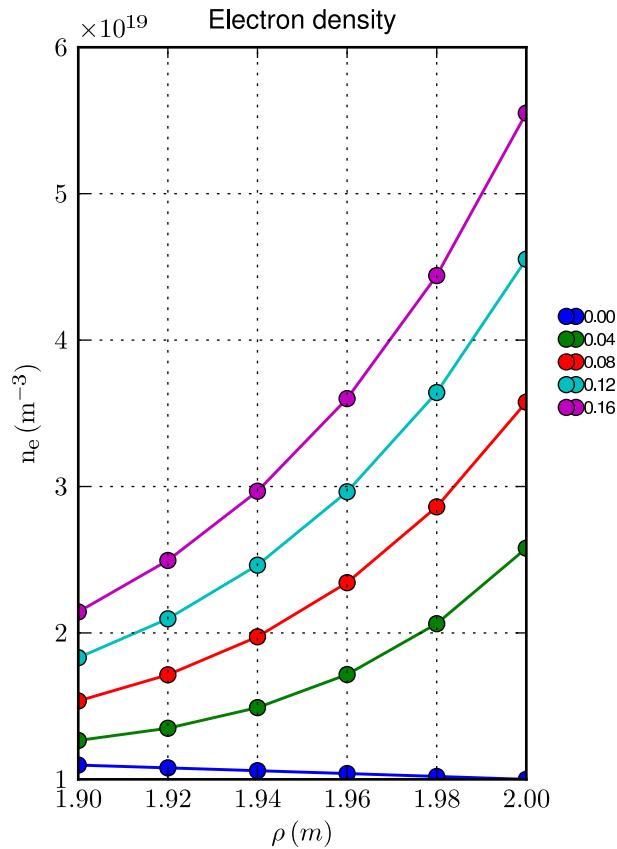
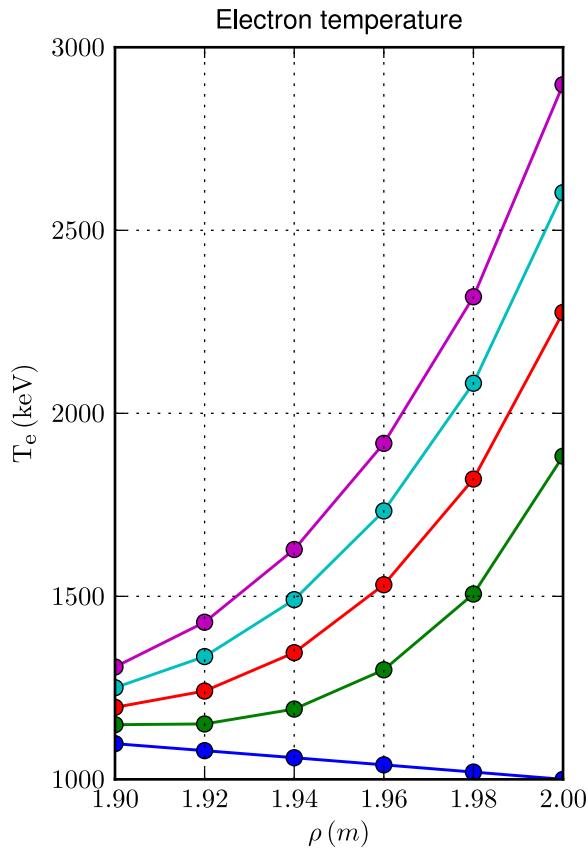


### Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over edge

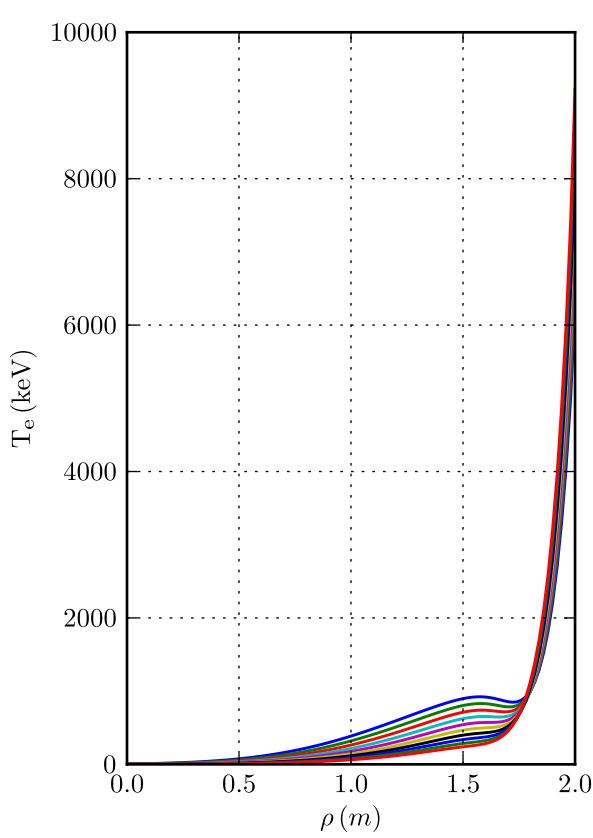
Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$



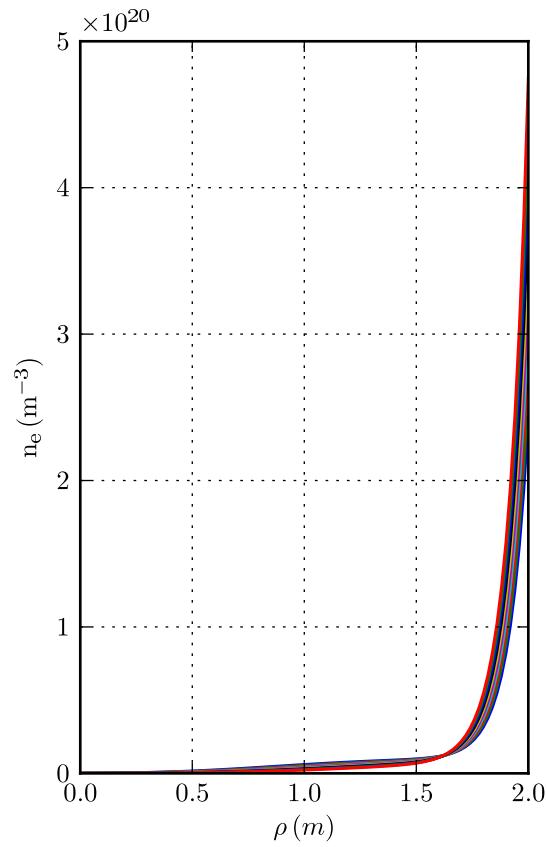
### Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Time sampling: last 10 time slices

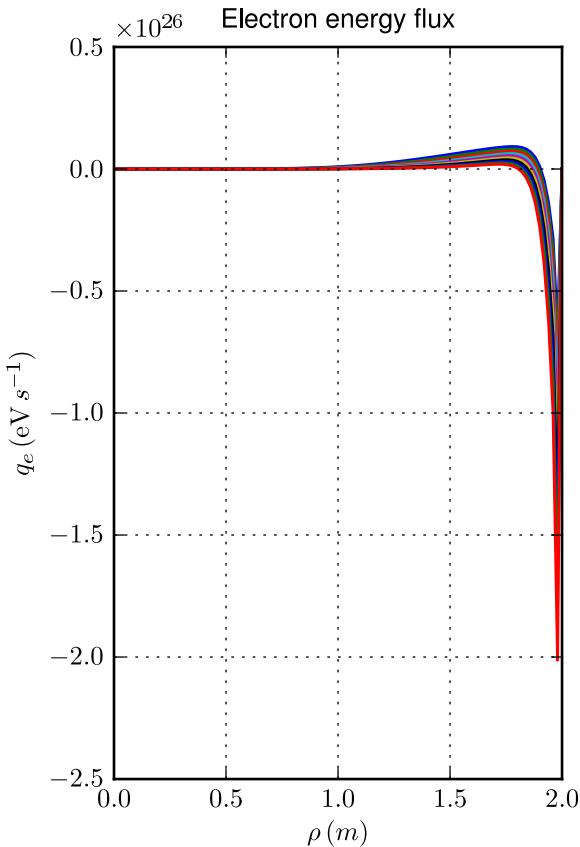
Electron temperature



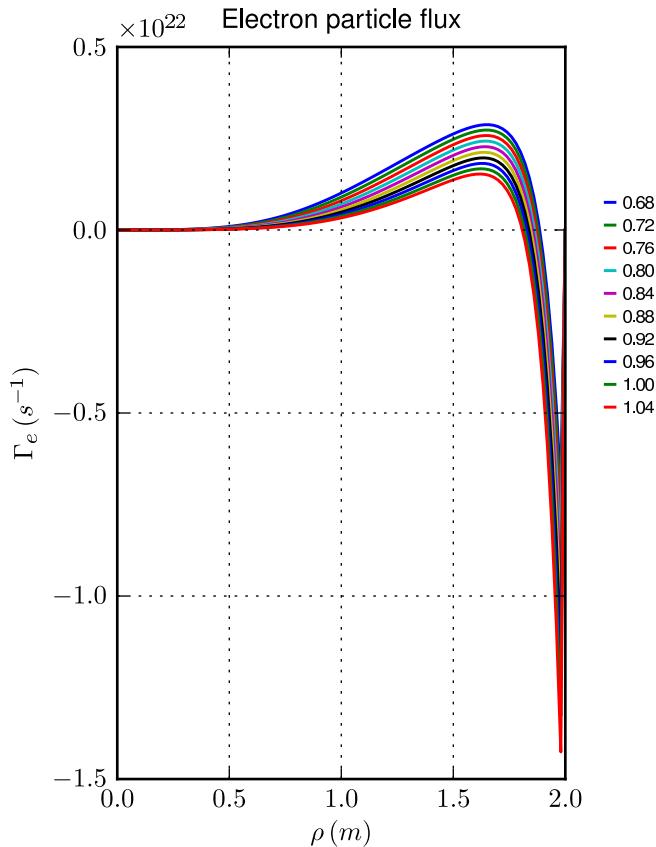
Electron density



Electron energy flux



Electron particle flux

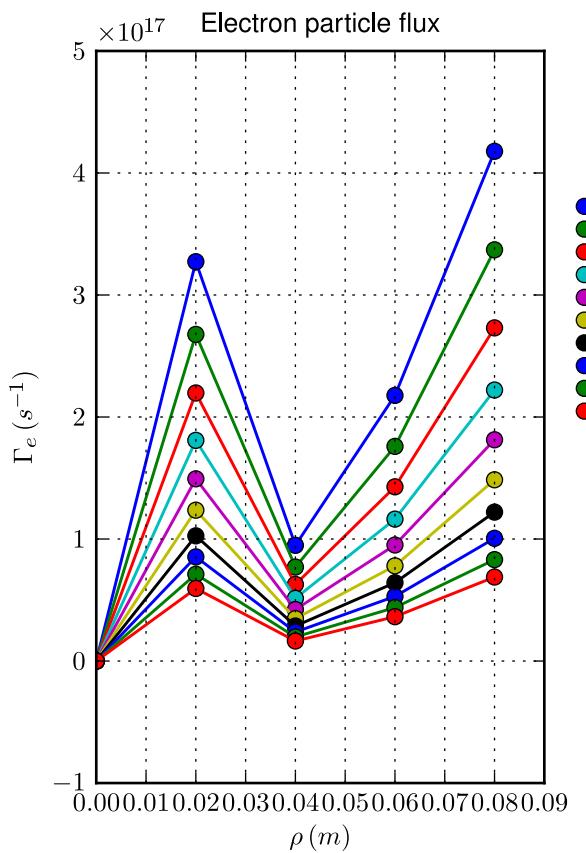
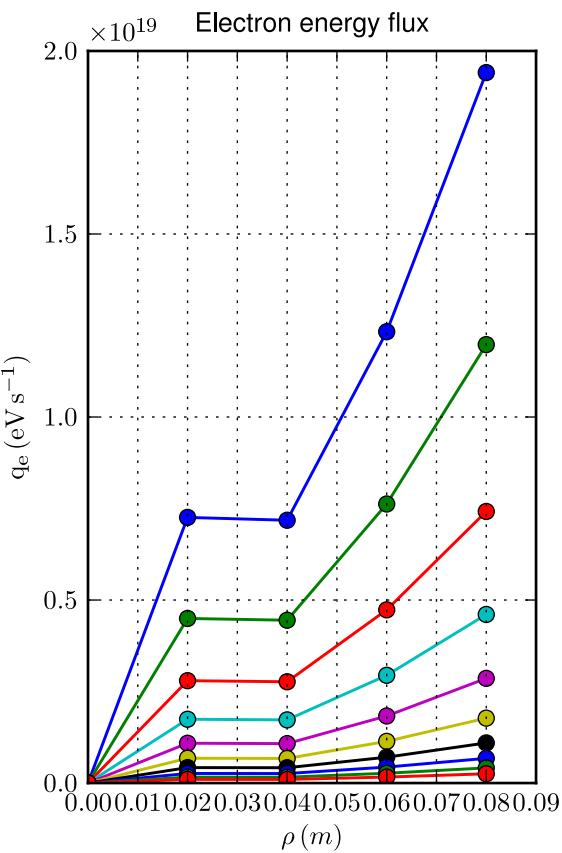
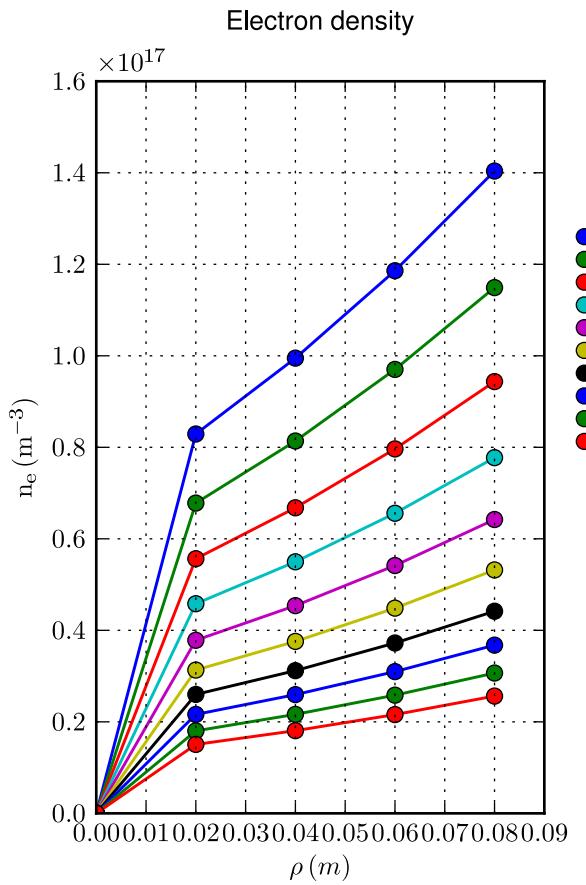
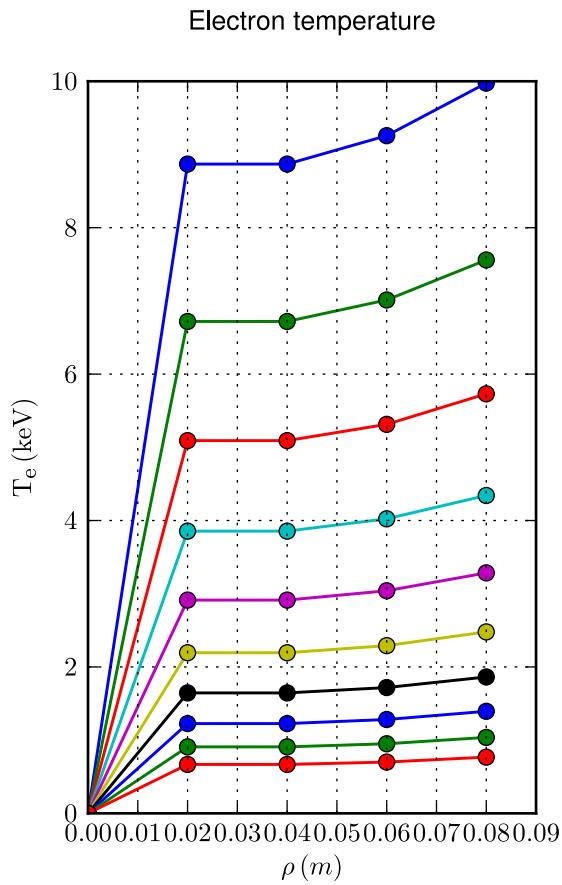


Legend:  
 0.68  
 0.72  
 0.76  
 0.80  
 0.84  
 0.88  
 0.92  
 0.96  
 1.00  
 1.04

# Profiles

[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

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

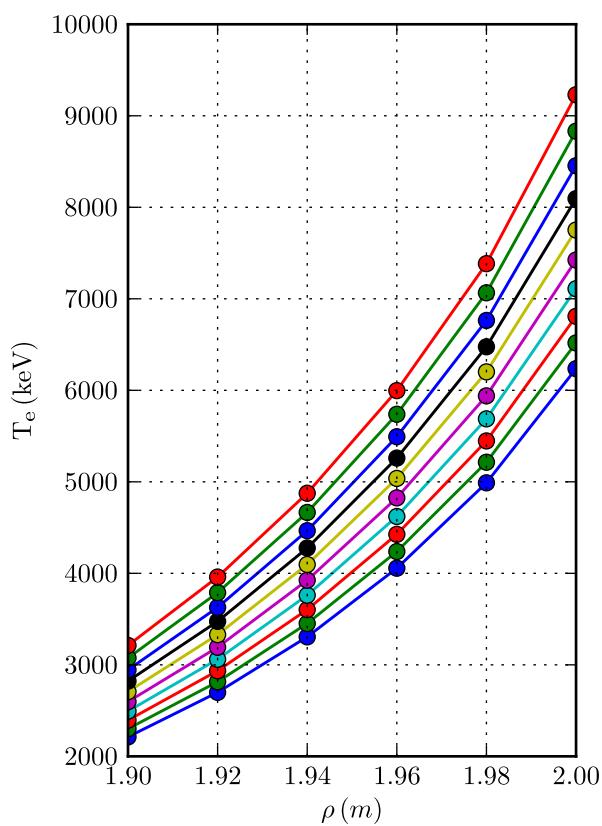


### Profiles

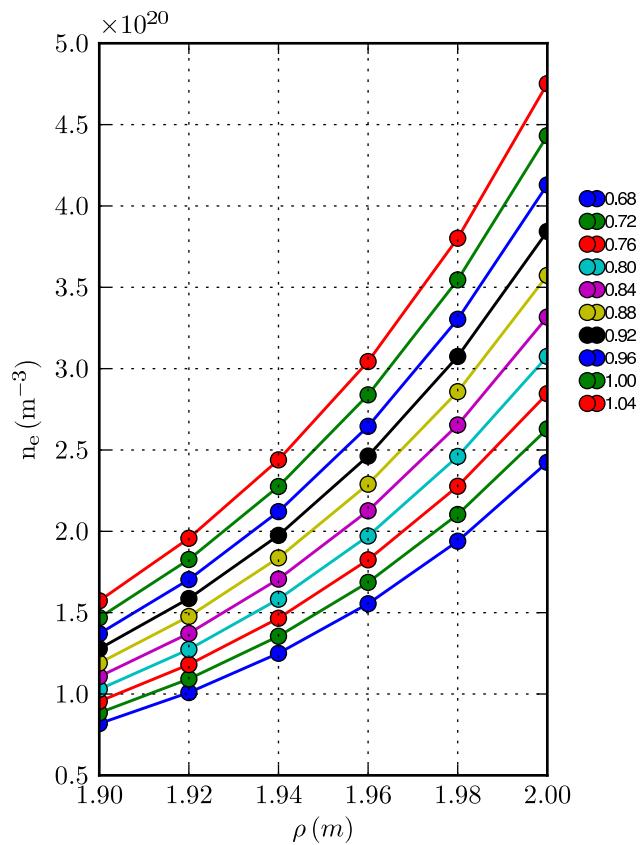
[Case: I.1.5.c, Solver: 7,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

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

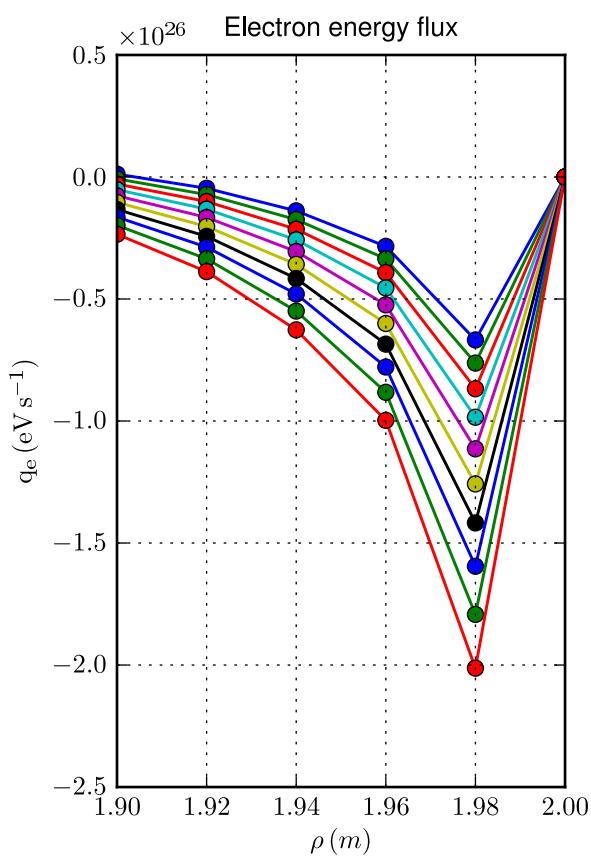
Electron temperature



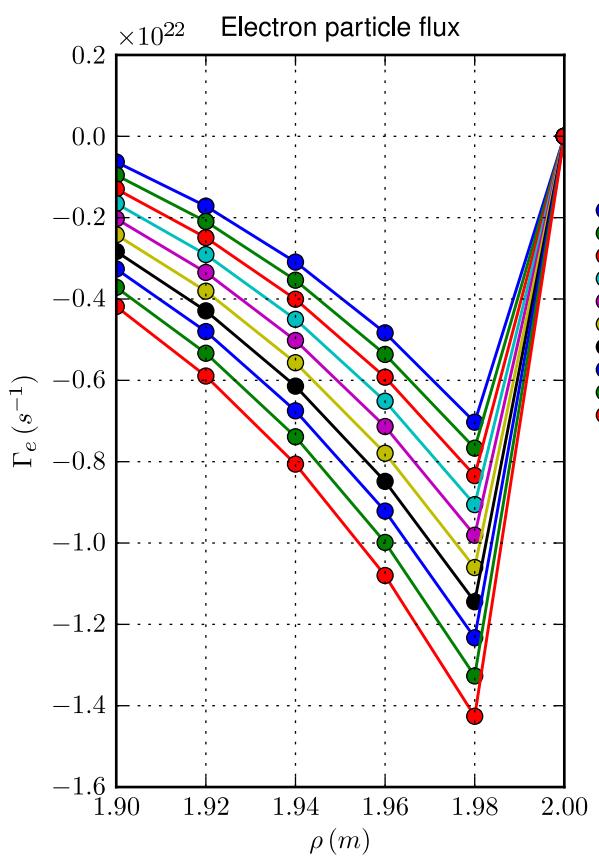
Electron density



Electron energy flux



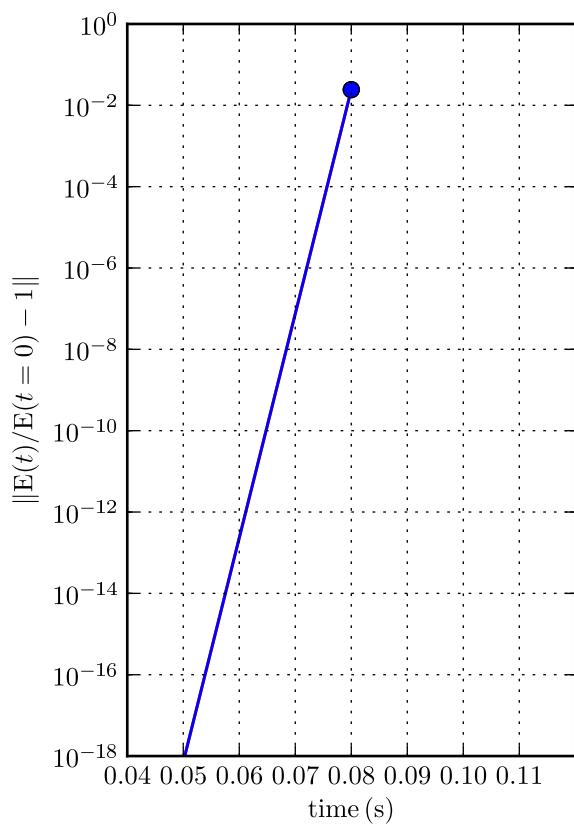
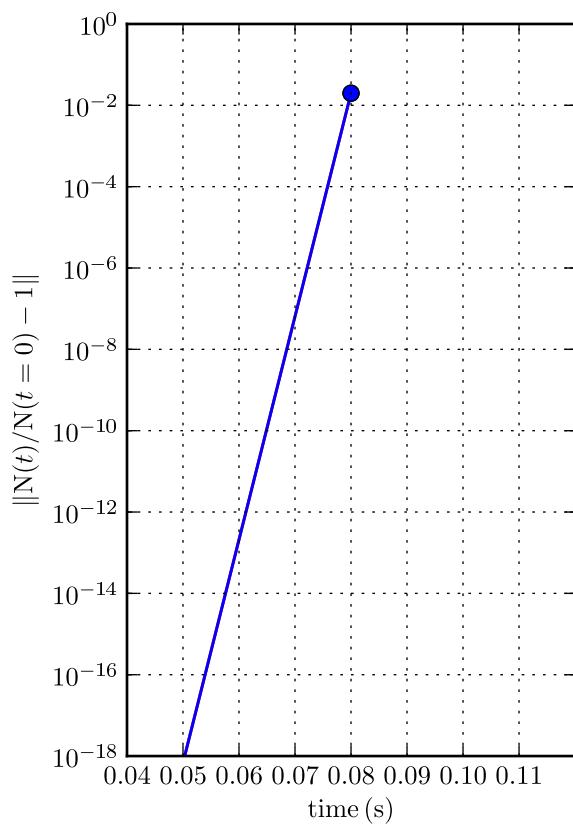
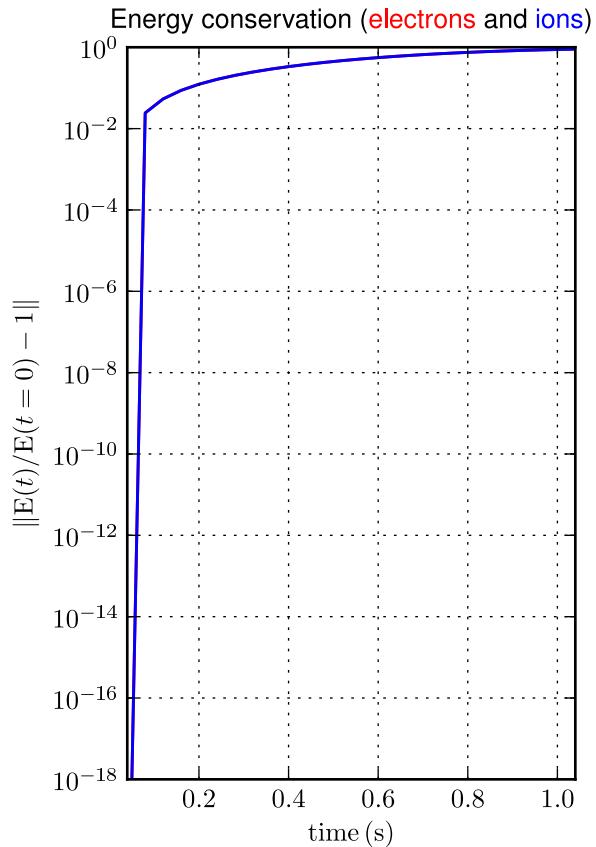
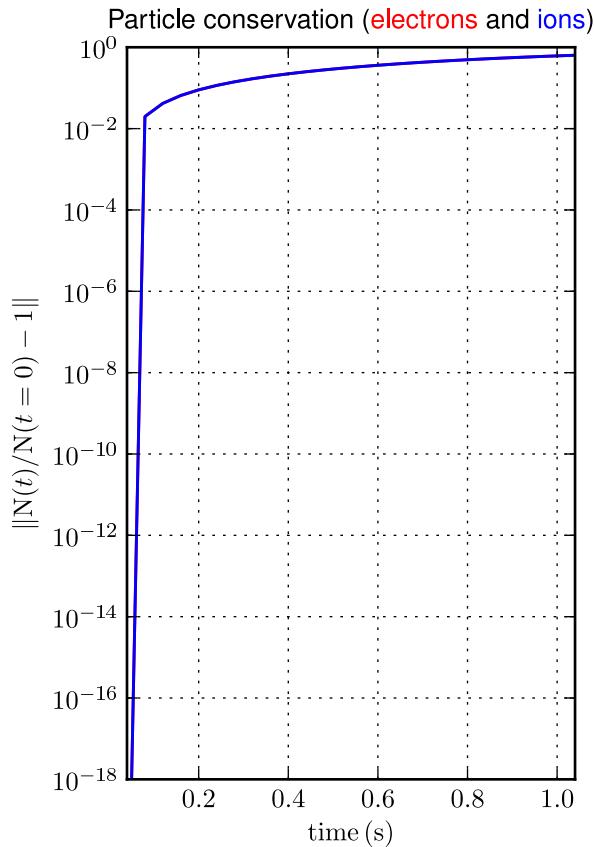
Electron particle flux



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

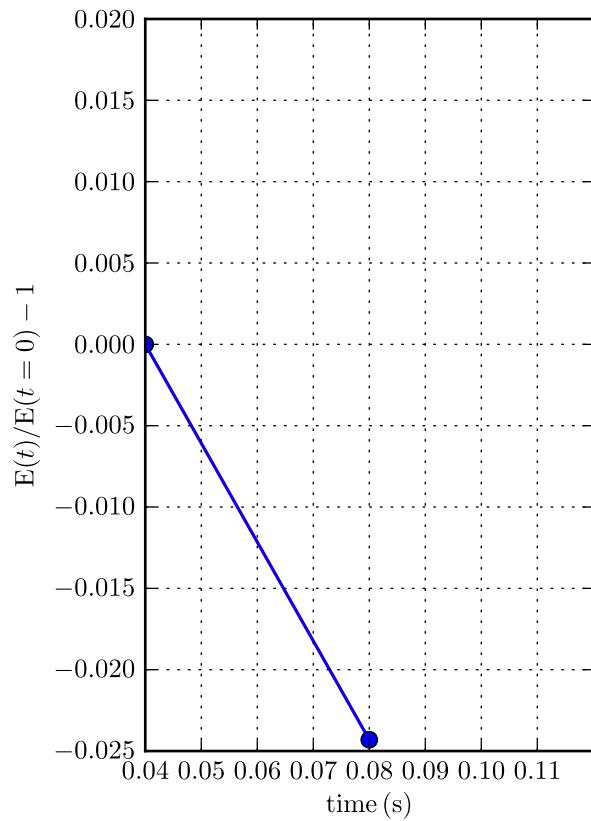
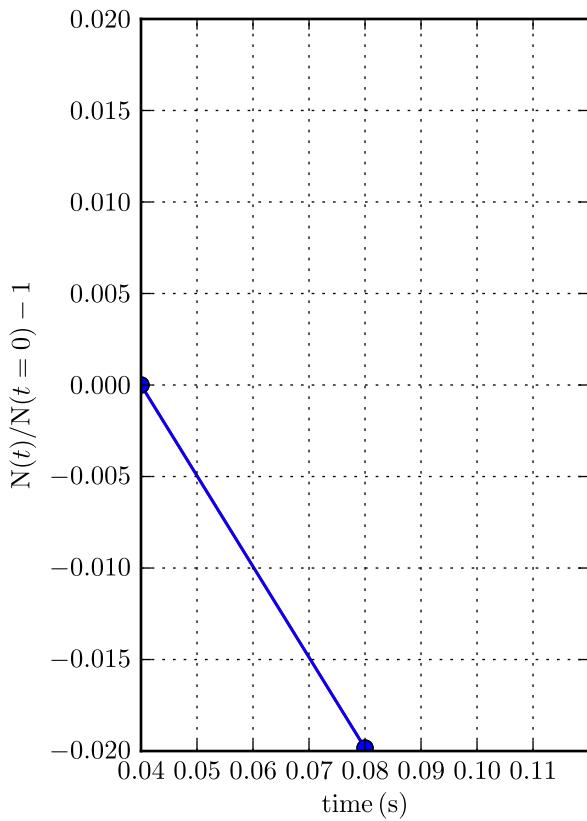
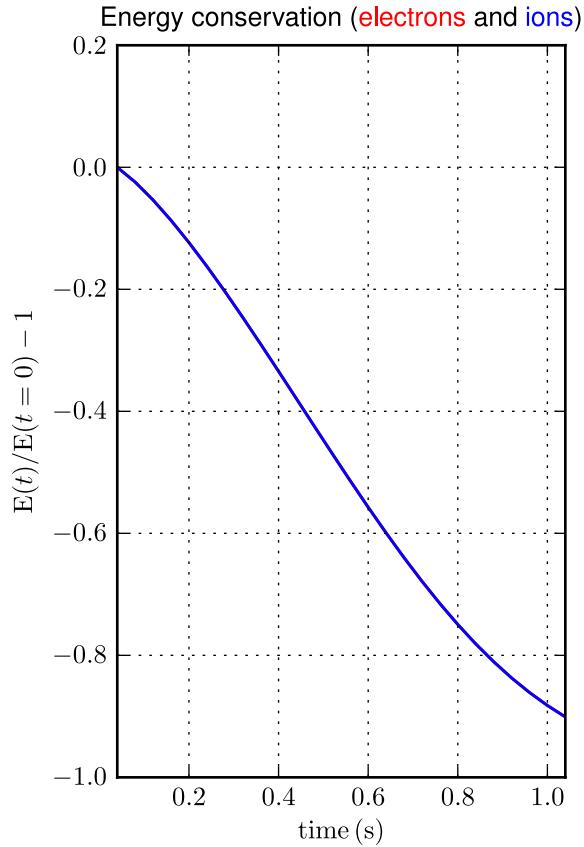
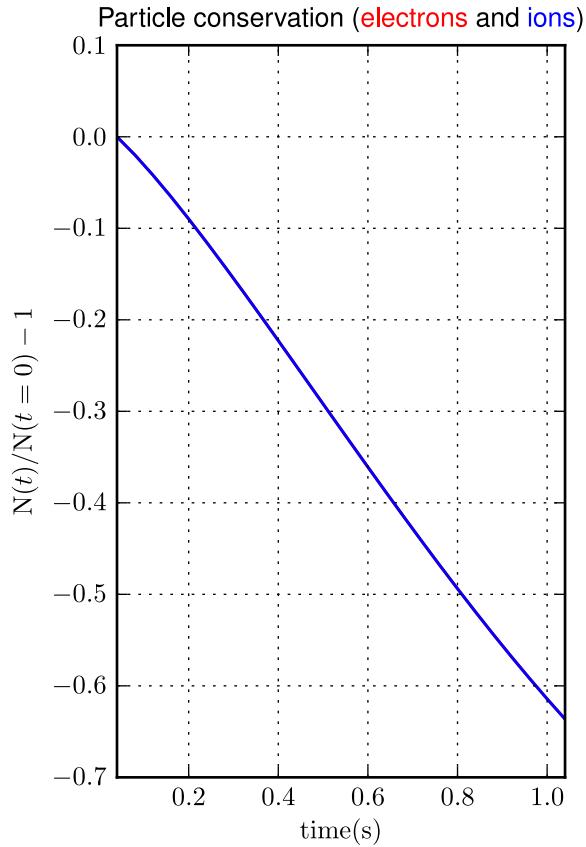
Comparison with initial solution - log scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

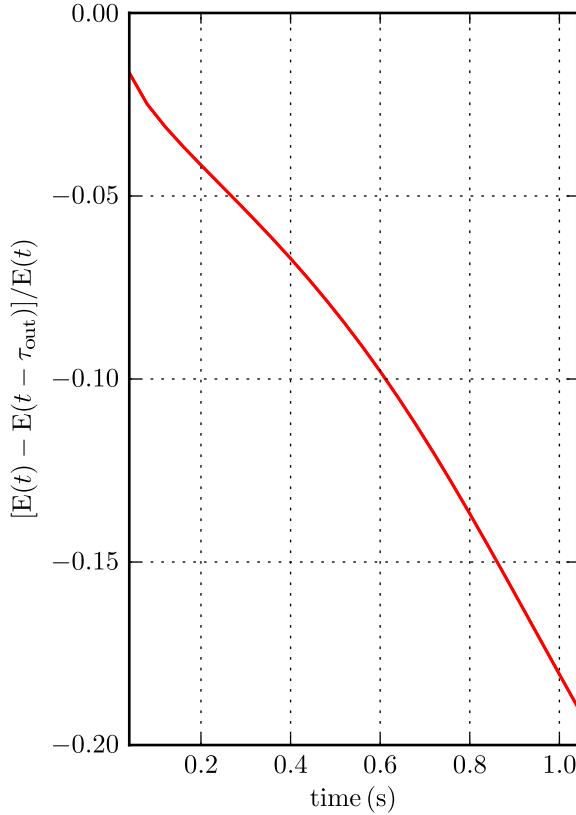
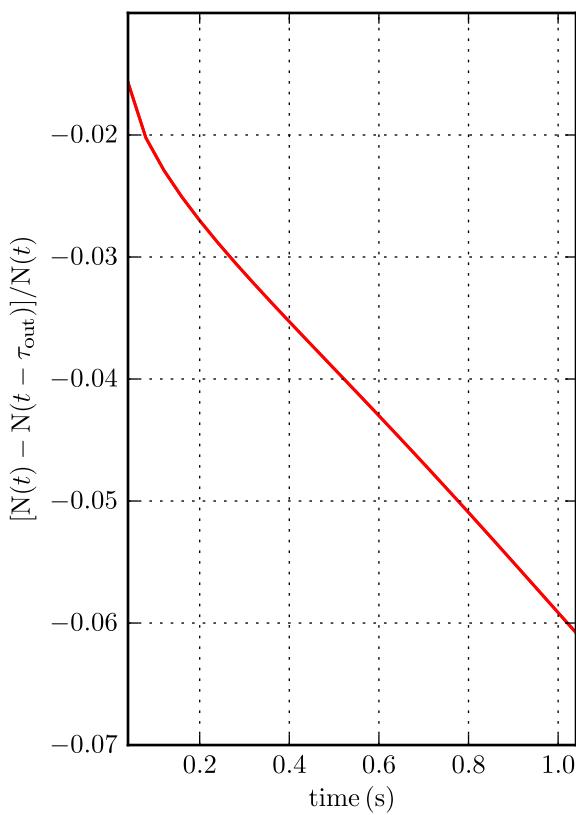
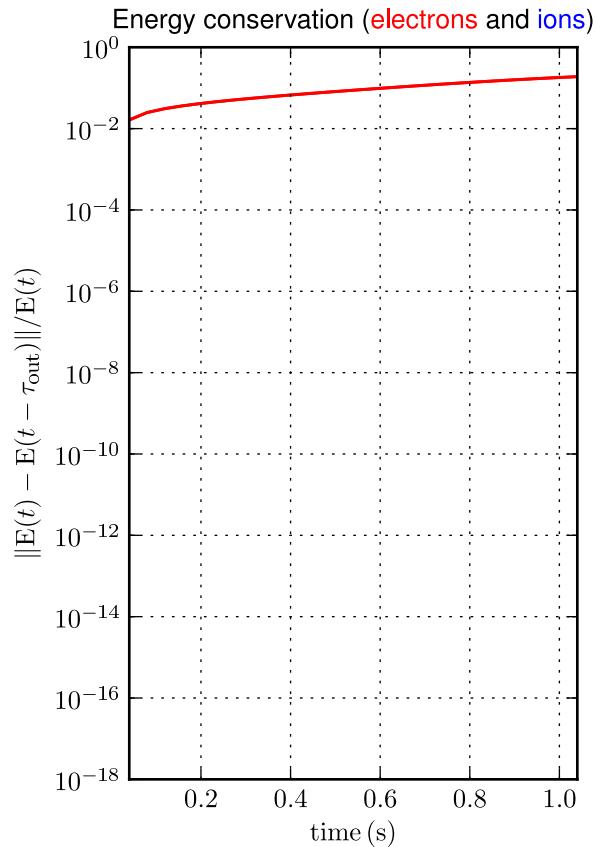
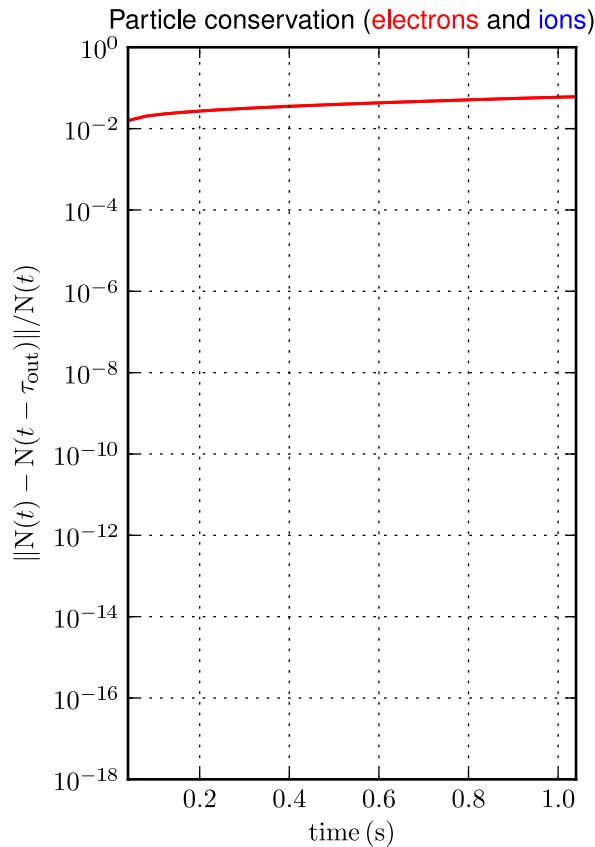
Comparison with initial solution - linear scale; total time and zoom over time



### Part. & Energy conservation

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

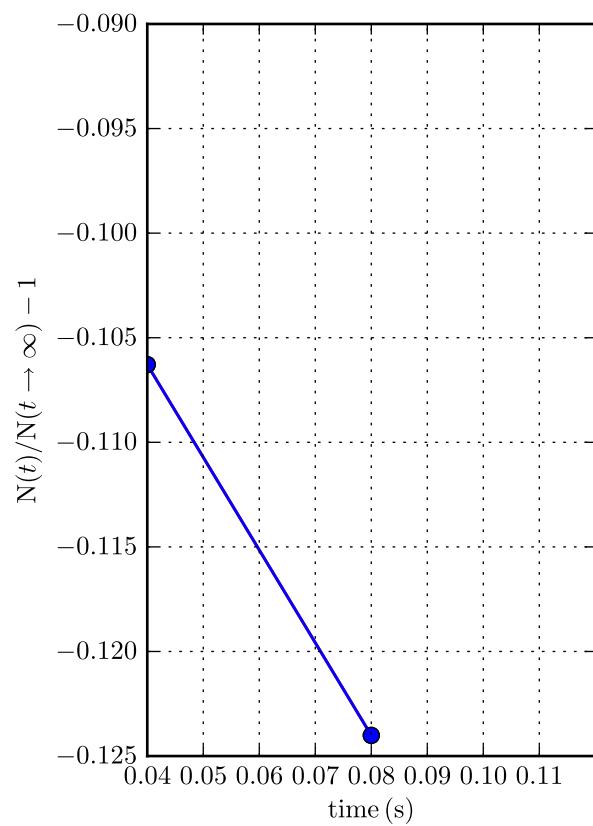
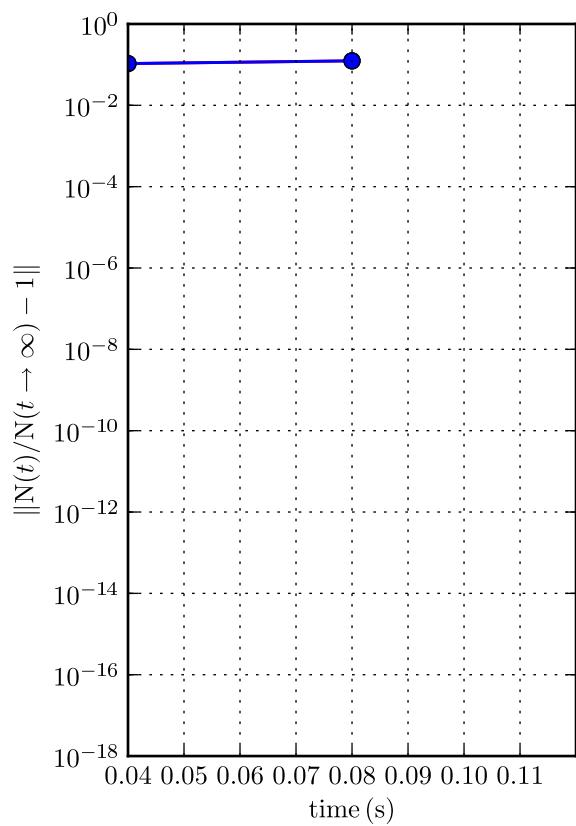
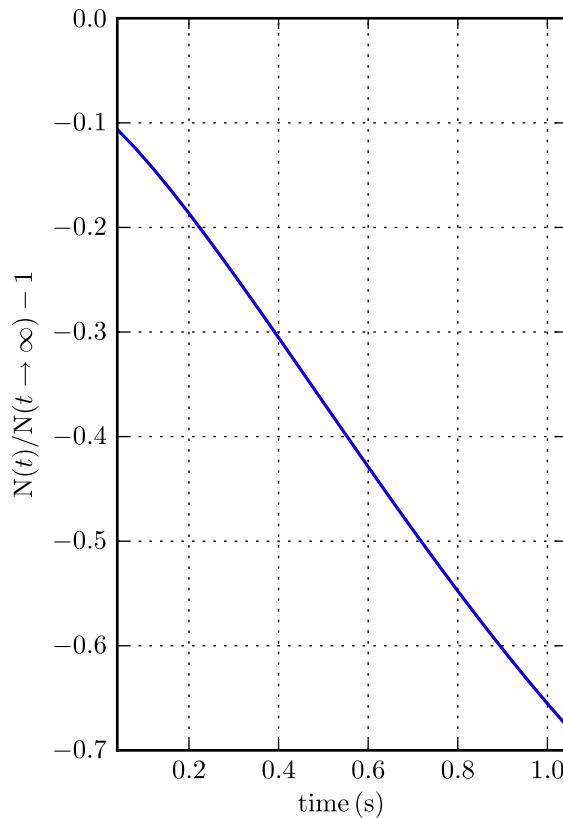
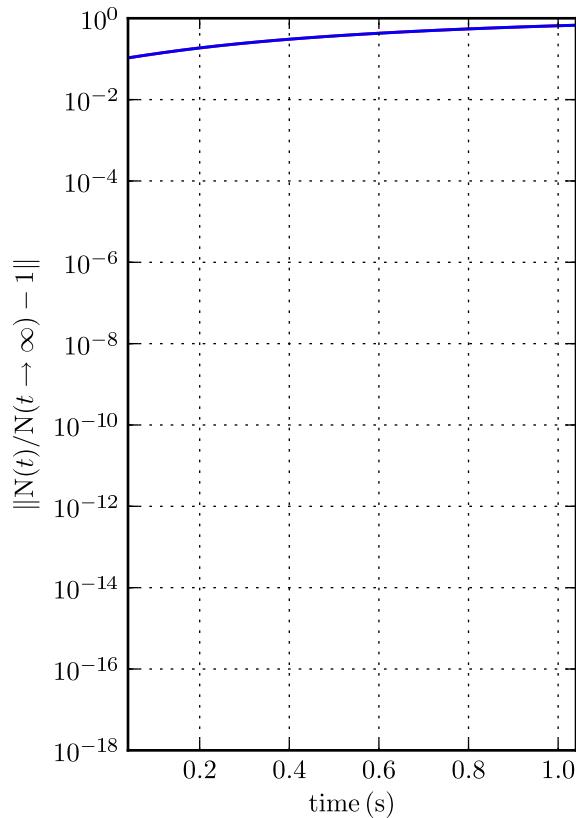
Comparison with previous time-sampled ( $\tau_{\text{out}}$ ) solution - log and linear scales



### Particle conservation

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

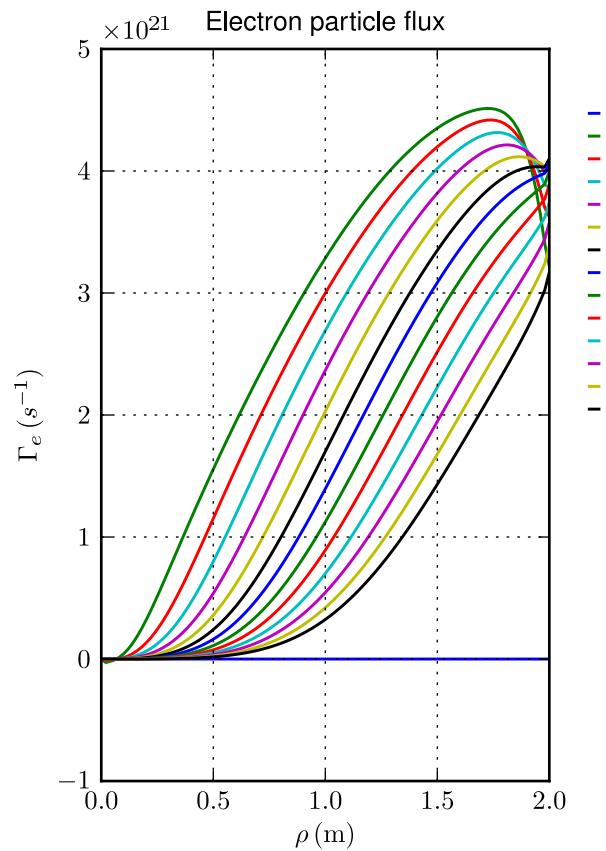
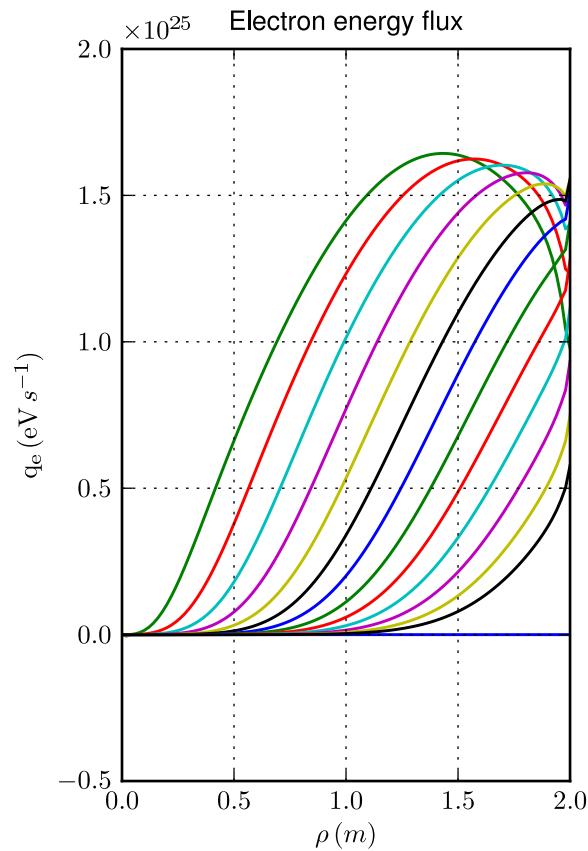
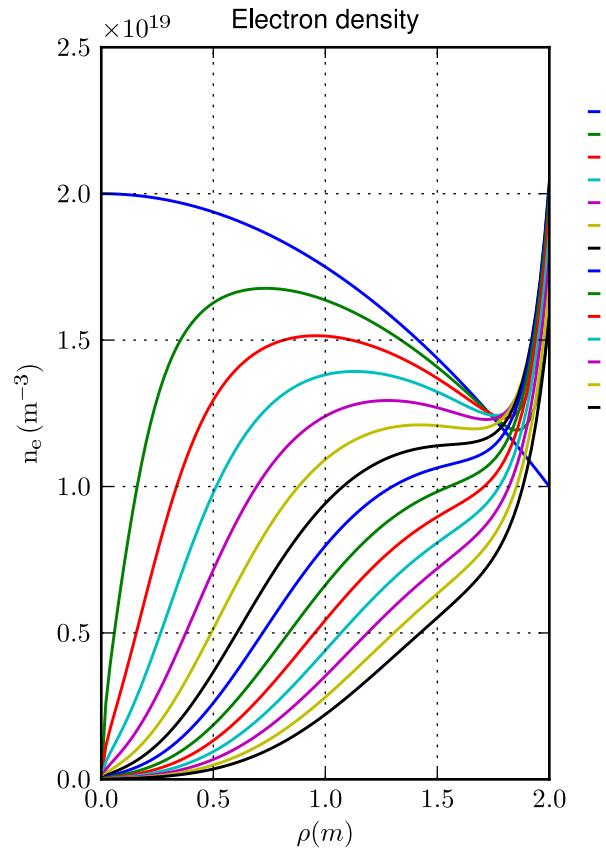
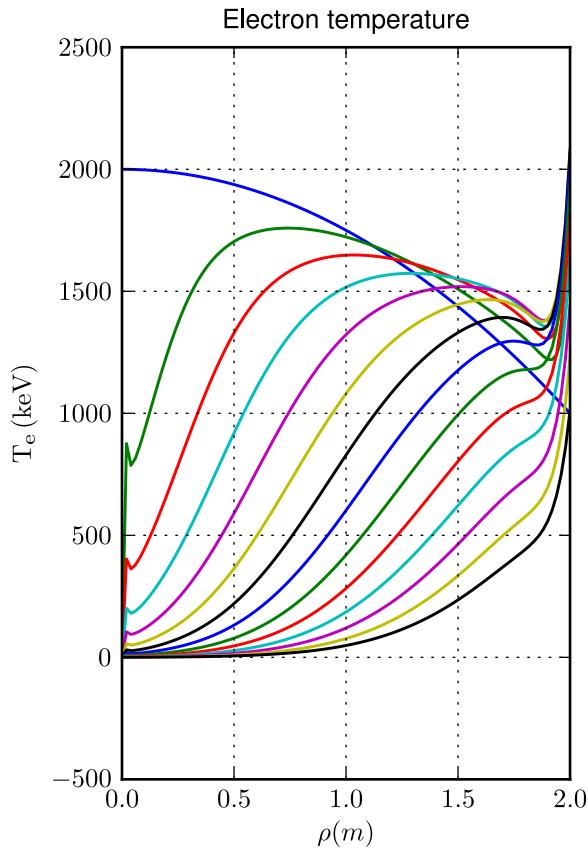
Comparison with asymptotic solution (electrons and ions); total time and zoom over time



### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

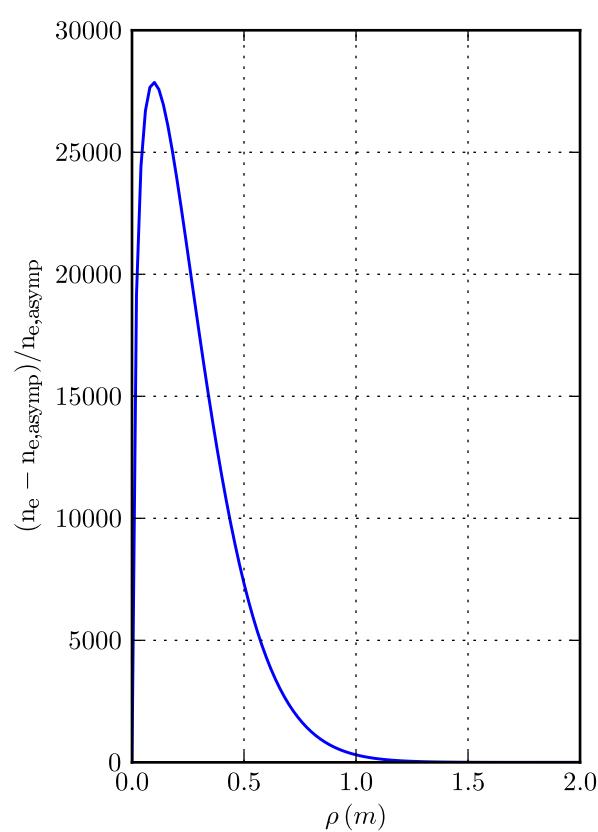
Time sampling: total simulation time/10



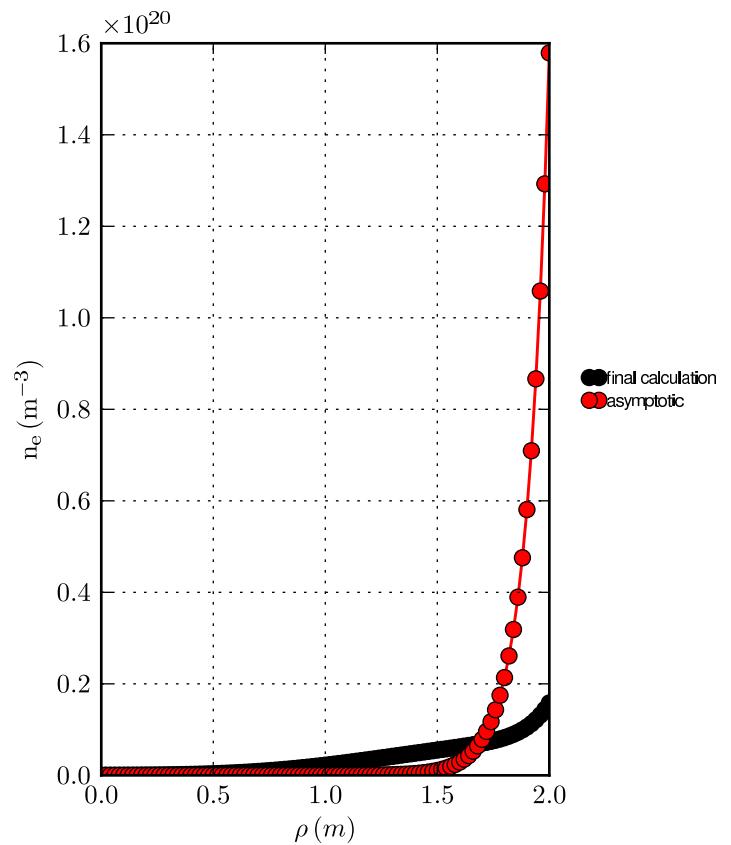
### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Comparison with asymptotic solution

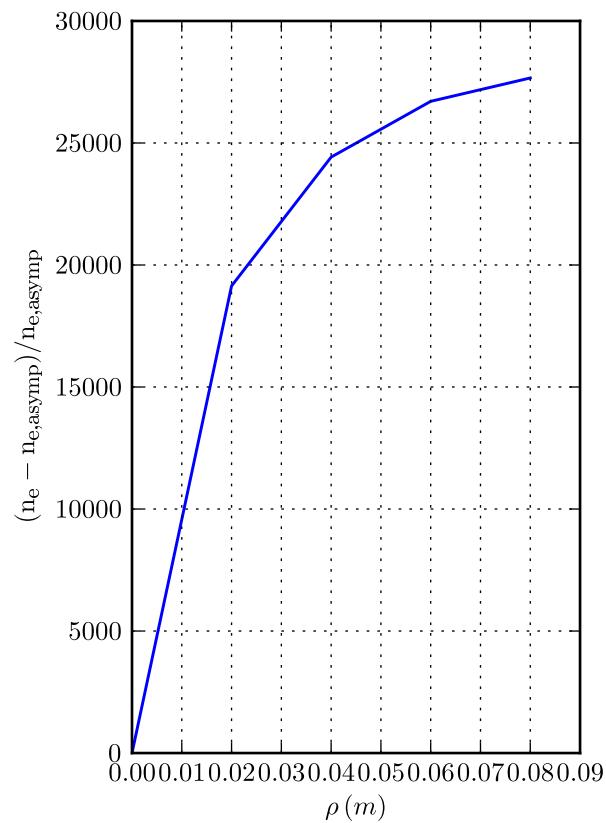
Electron density relative error



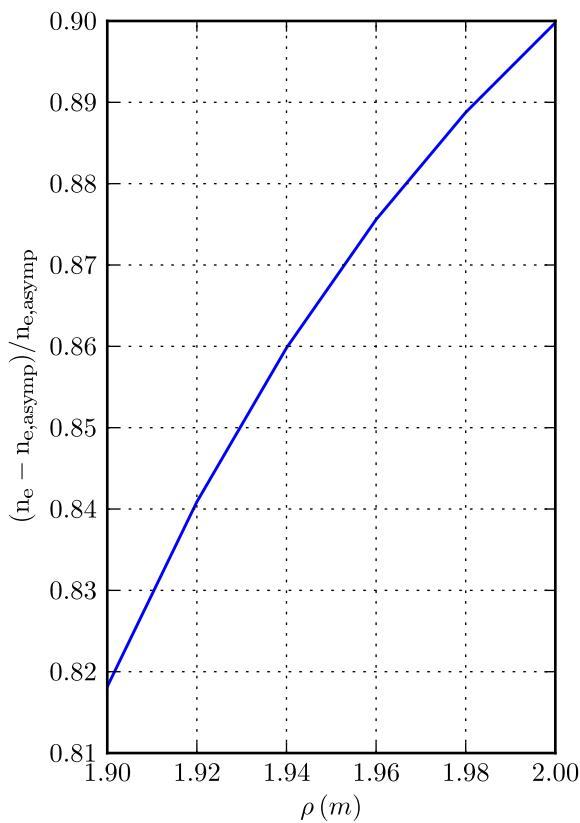
Electron density



Error: zoom over axis



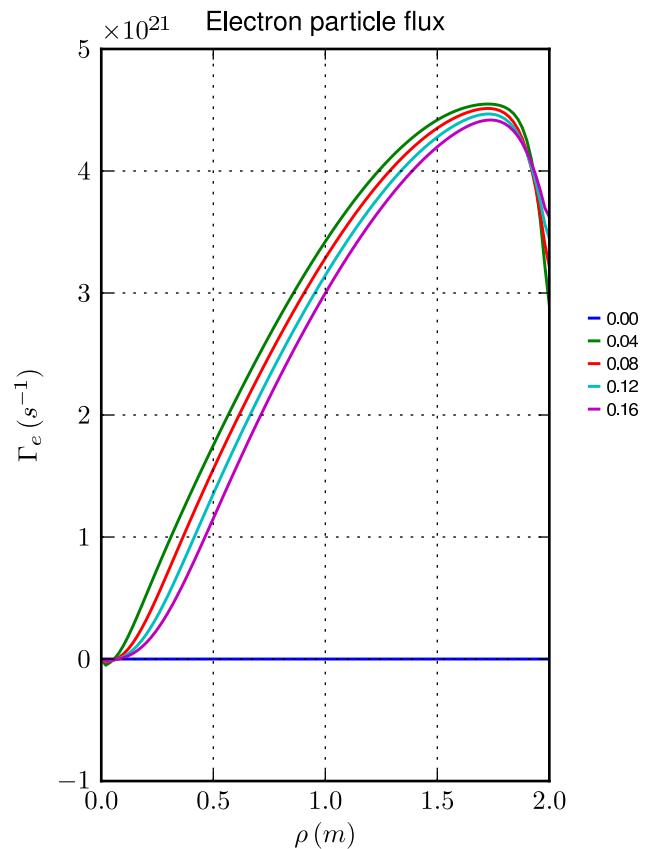
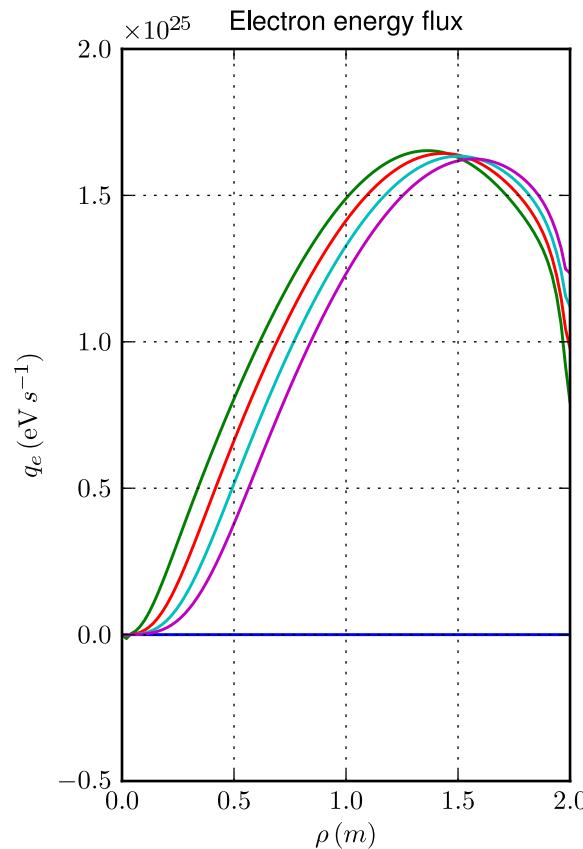
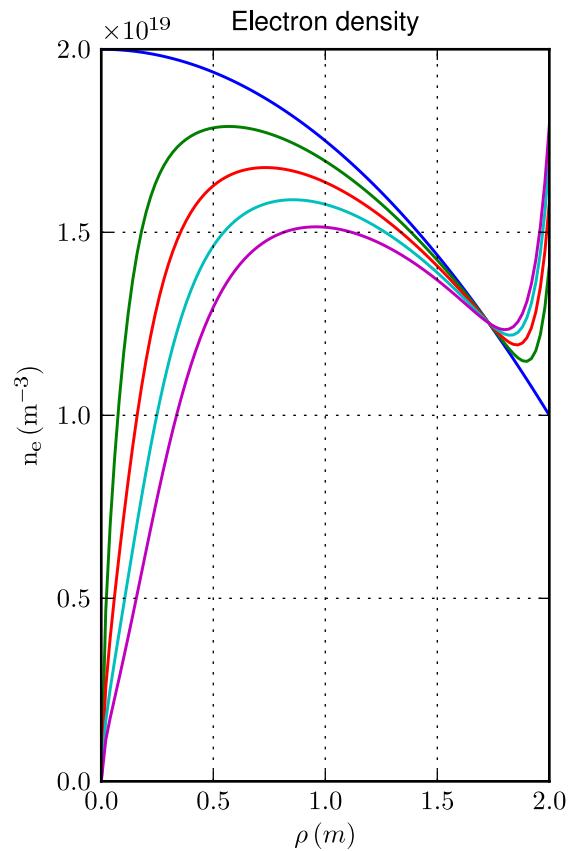
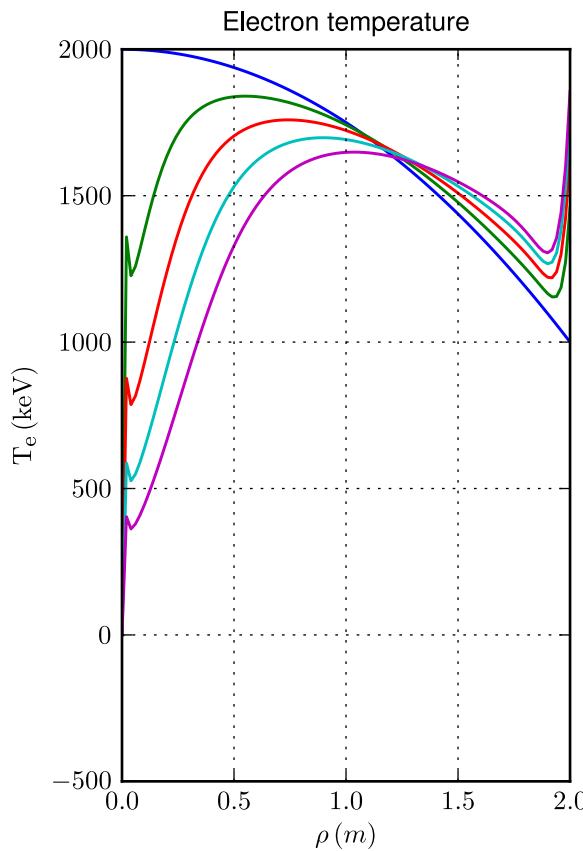
Error: zoom over edge



### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

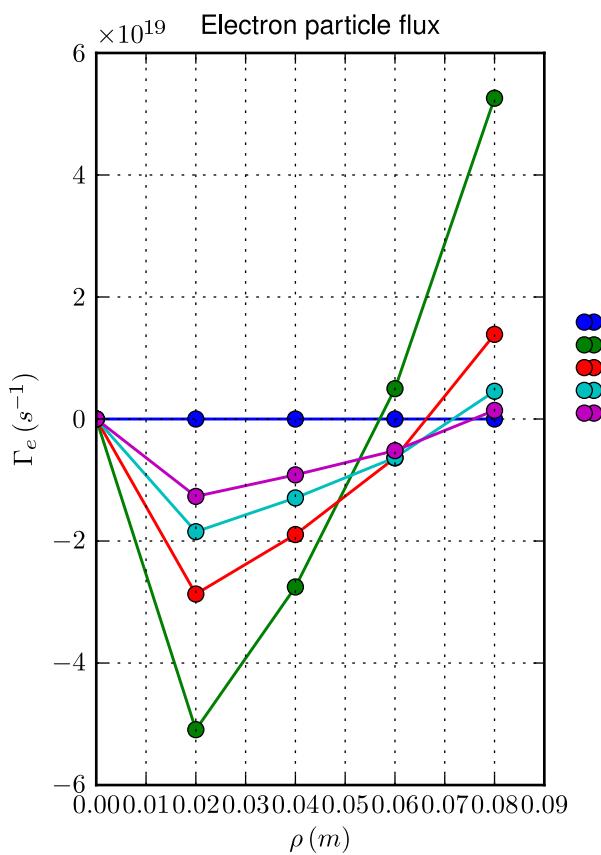
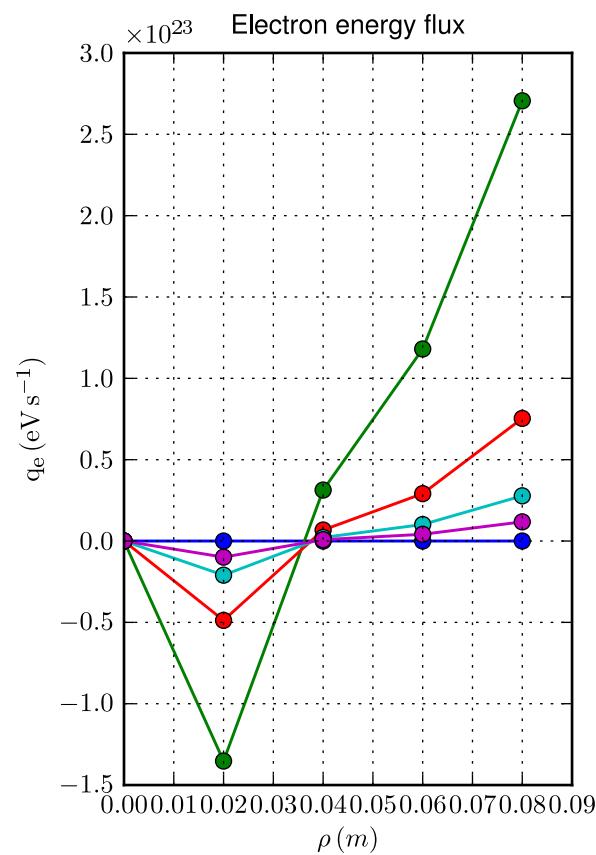
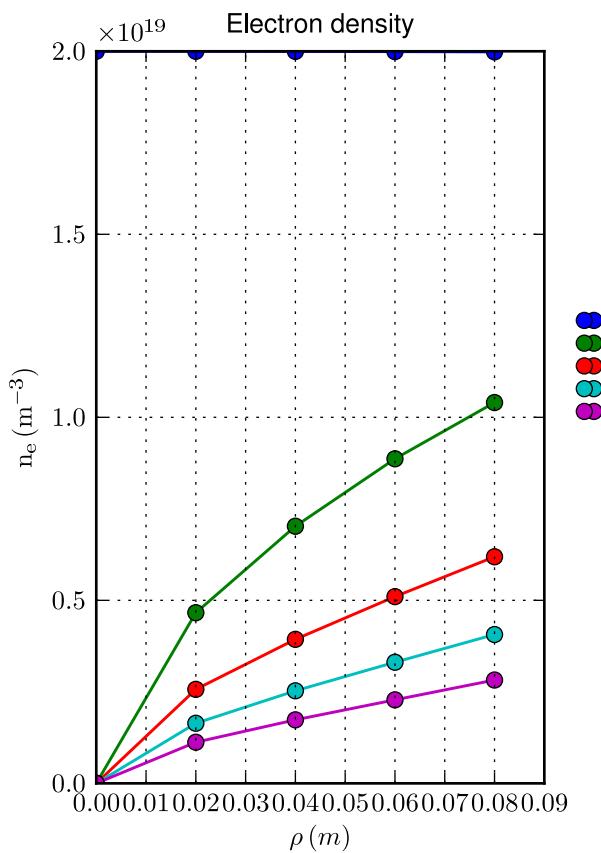
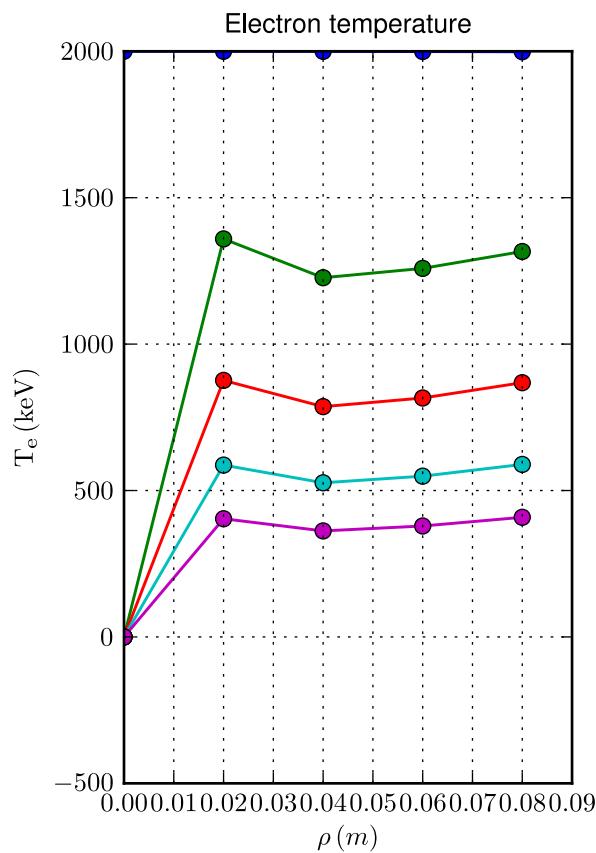


### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

#### Spatial zoom over magnetic axis

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$

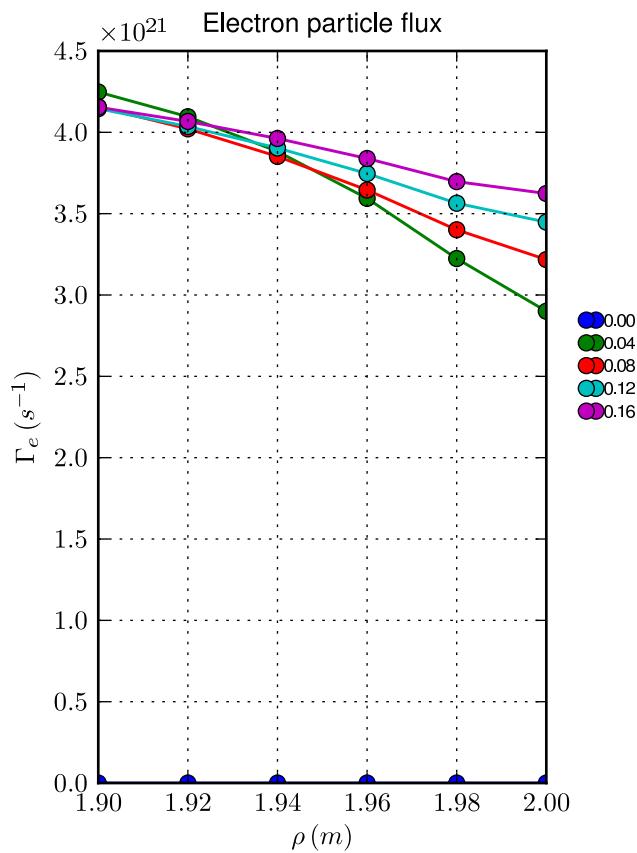
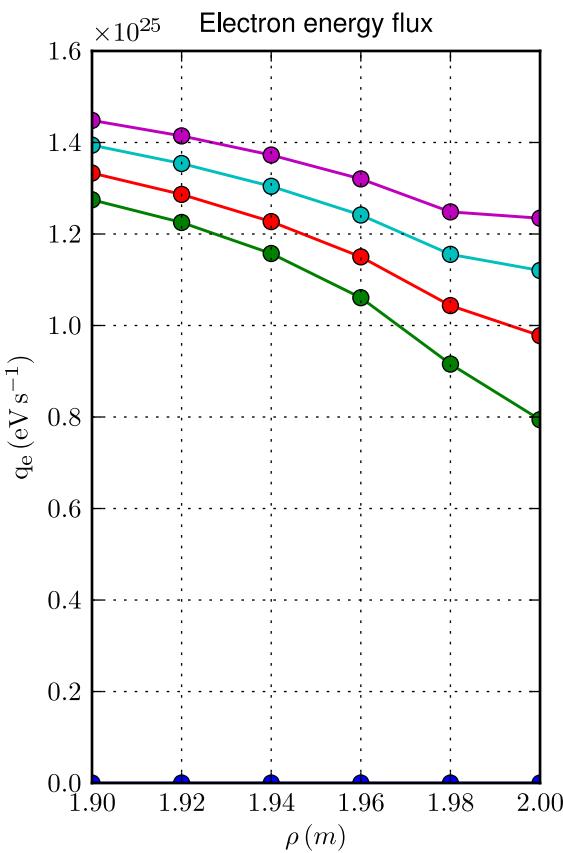
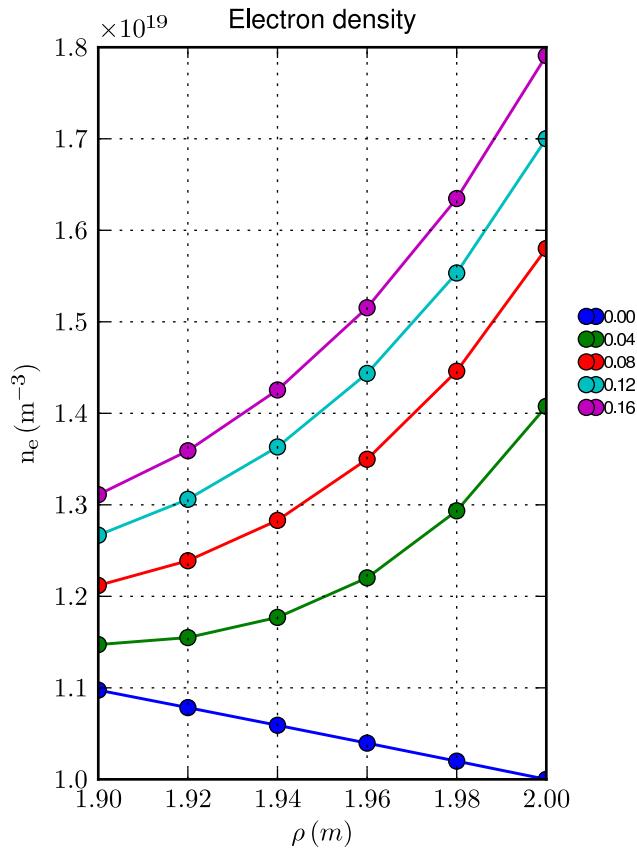
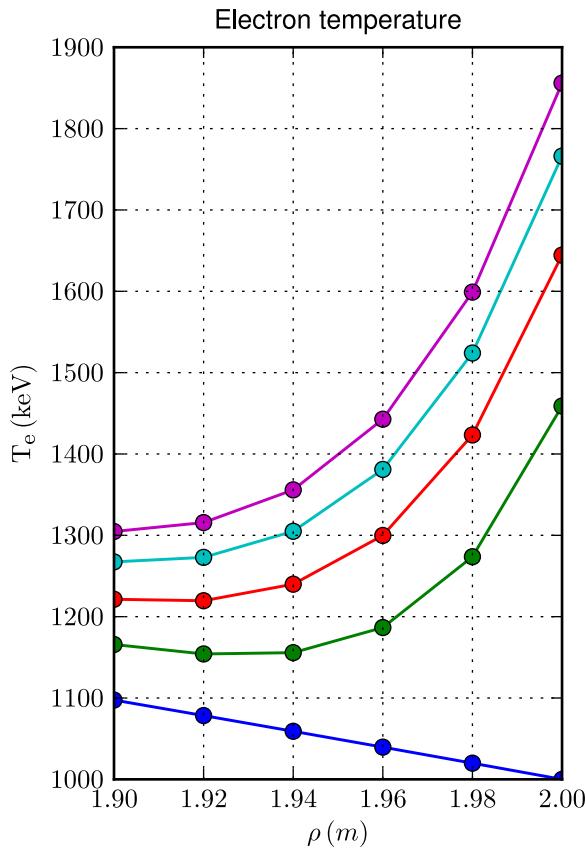


### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]

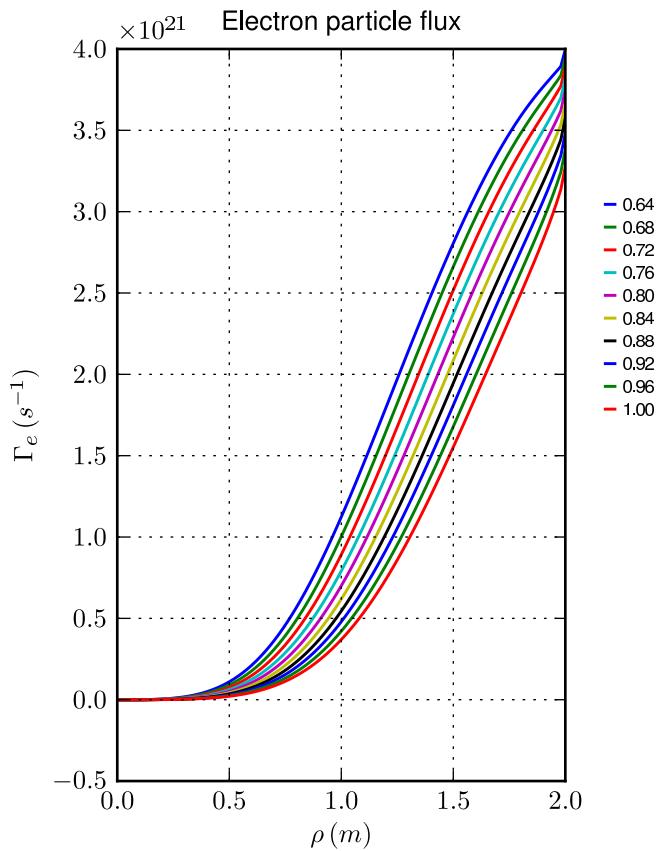
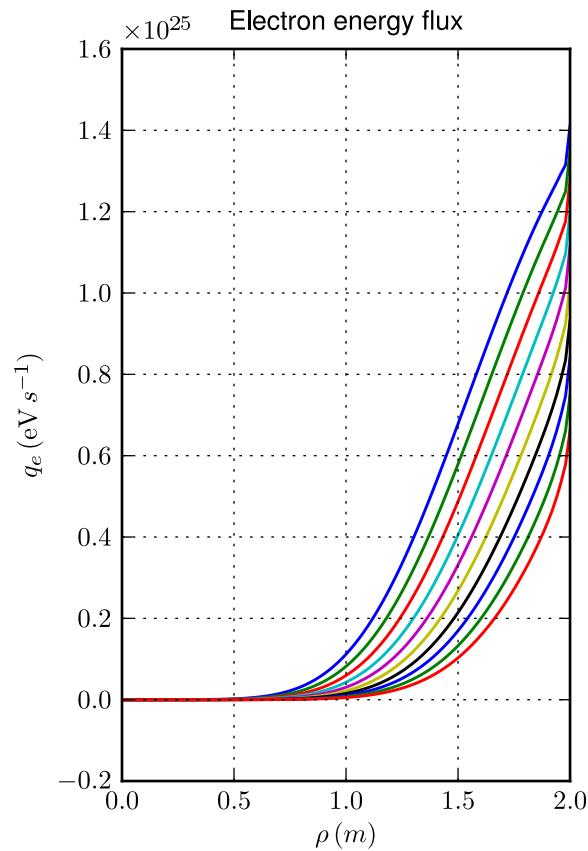
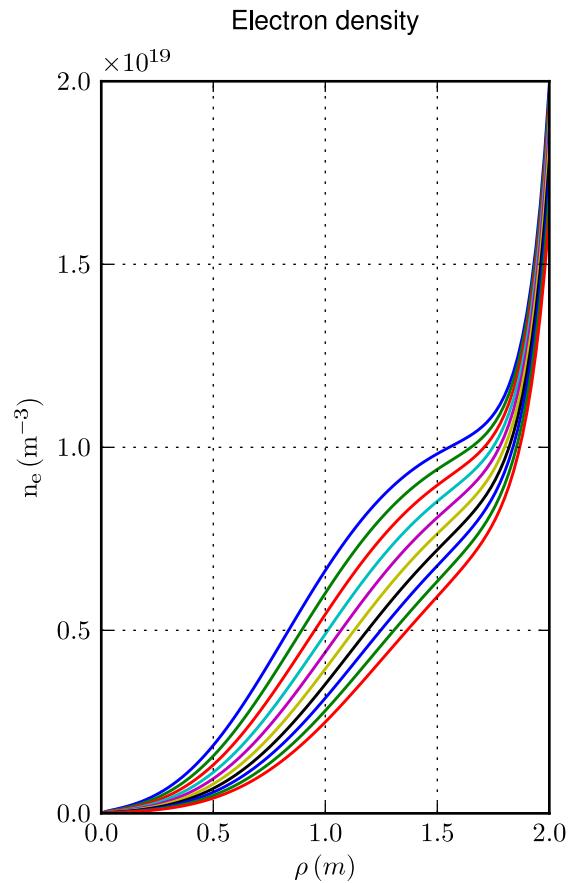
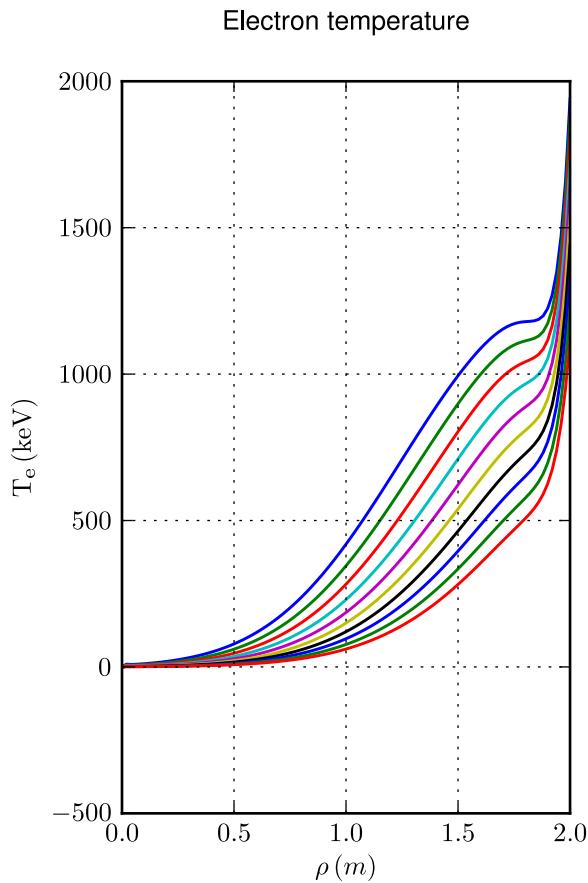
#### Spatial zoom over edge

Time sampling: first 10 time slices or zoom over time  $0.1 \times (a^2/D)/|1 - (Va/D)| = 0.21 \text{ s}$



### Profiles

[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_\rho = 101$ ]  
 Time sampling: last 10 time slices

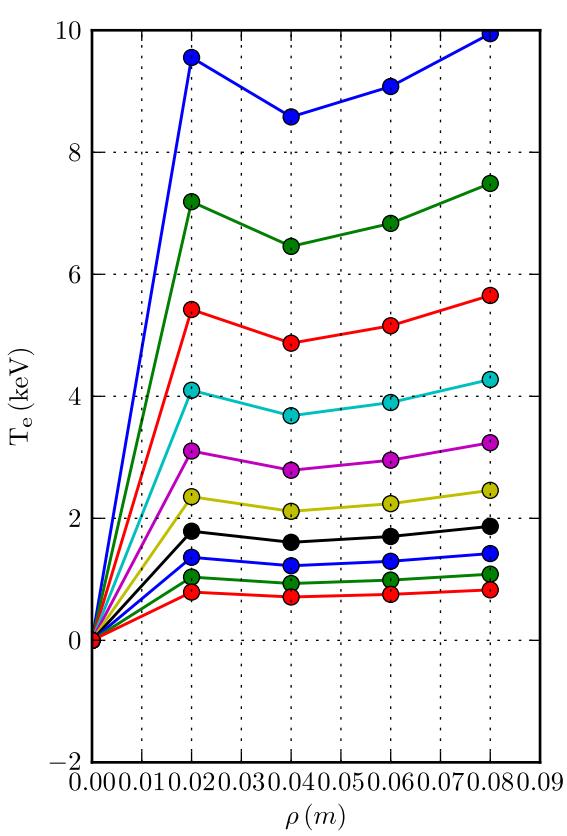


### Profiles

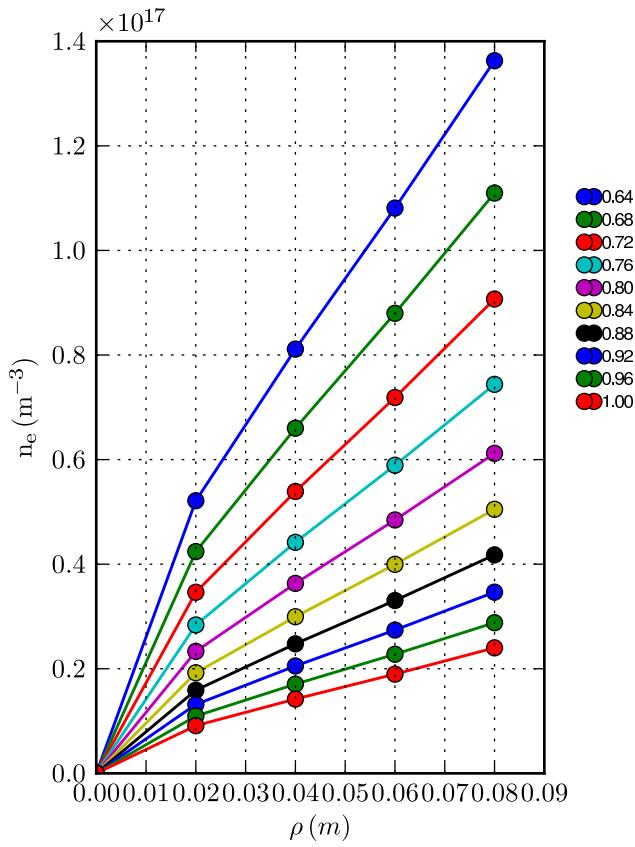
[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

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

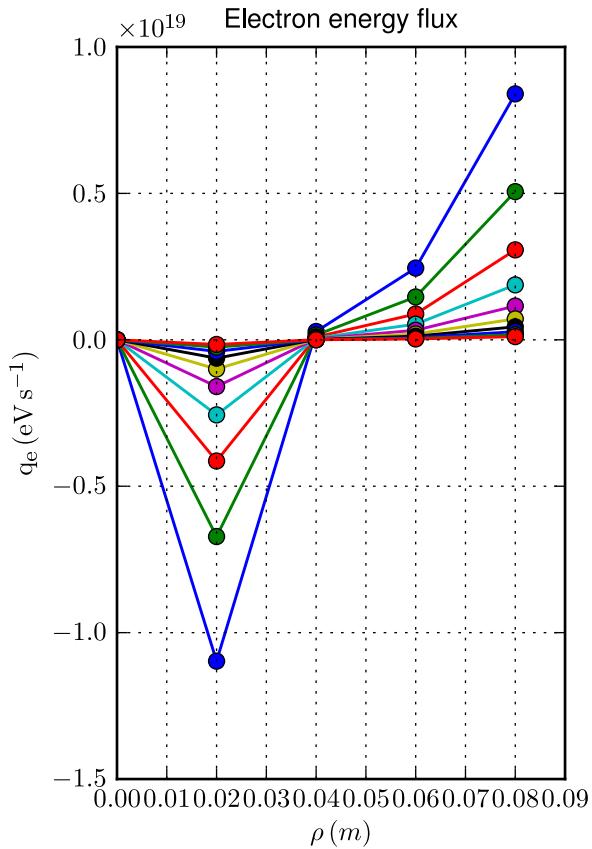
Electron temperature



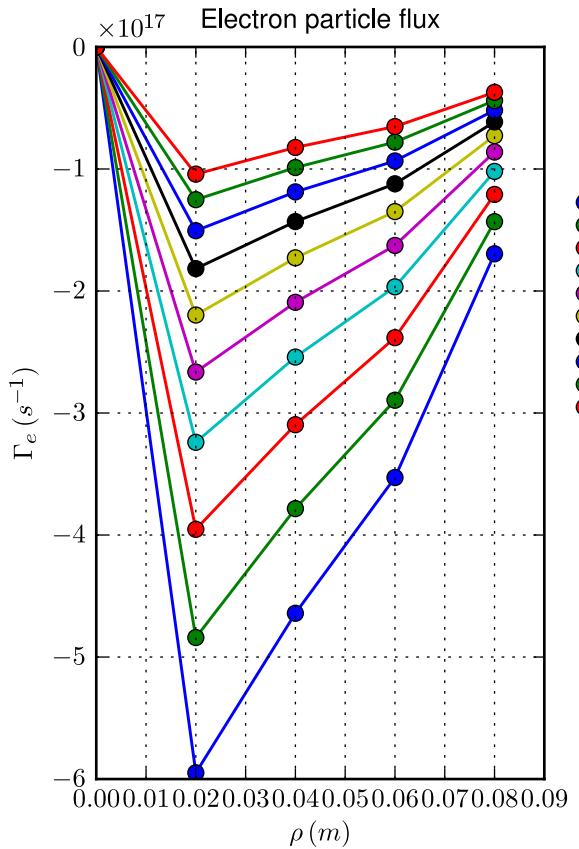
Electron density



Electron energy flux



Electron particle flux

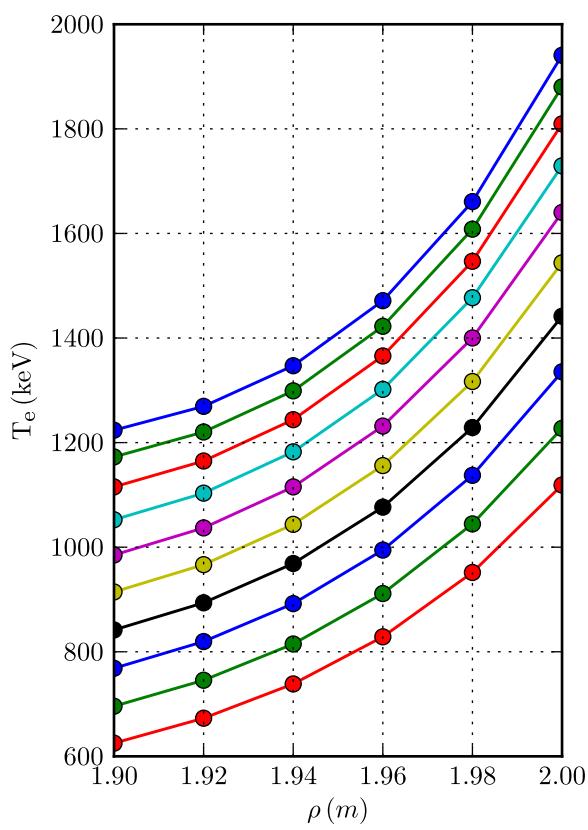


### Profiles

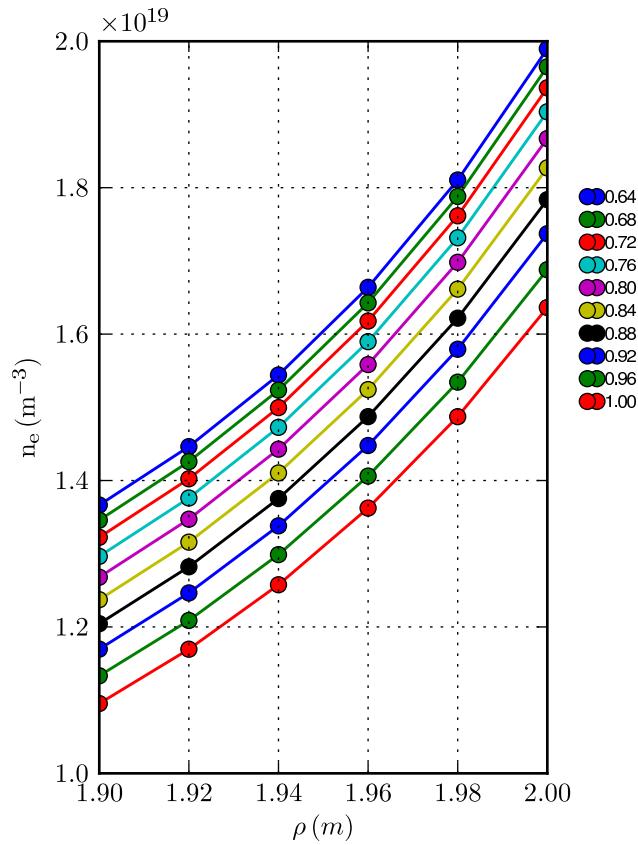
[Case: I.1.5.c, Solver: 10,  $D = 0.1 \text{ m}^2/\text{s}$ ,  $v = 1.00 \text{ m/s}$ ,  $\Delta t = 4.01$ ,  $\tau = 1.0 \times 10^{-2} \text{ s}$ ,  $N_p = 101$ ]

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

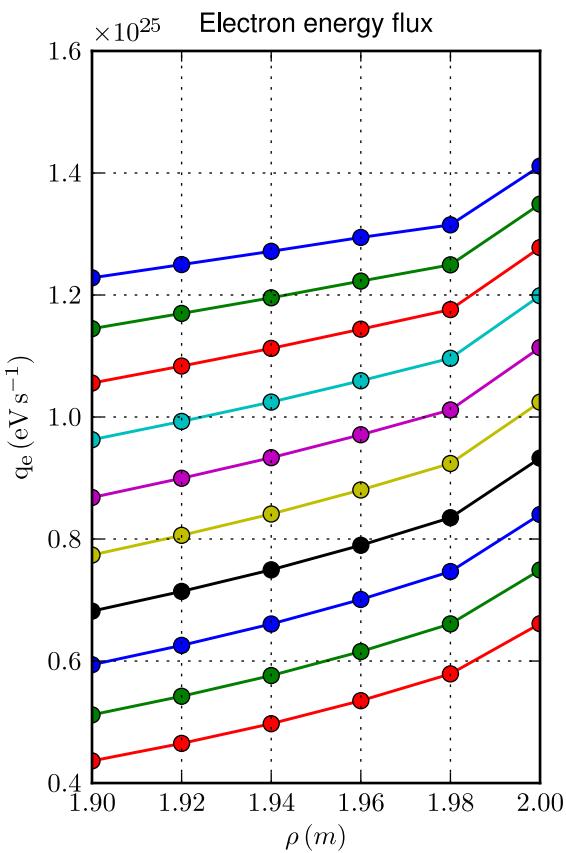
Electron temperature



Electron density



Electron energy flux



Electron particle flux

