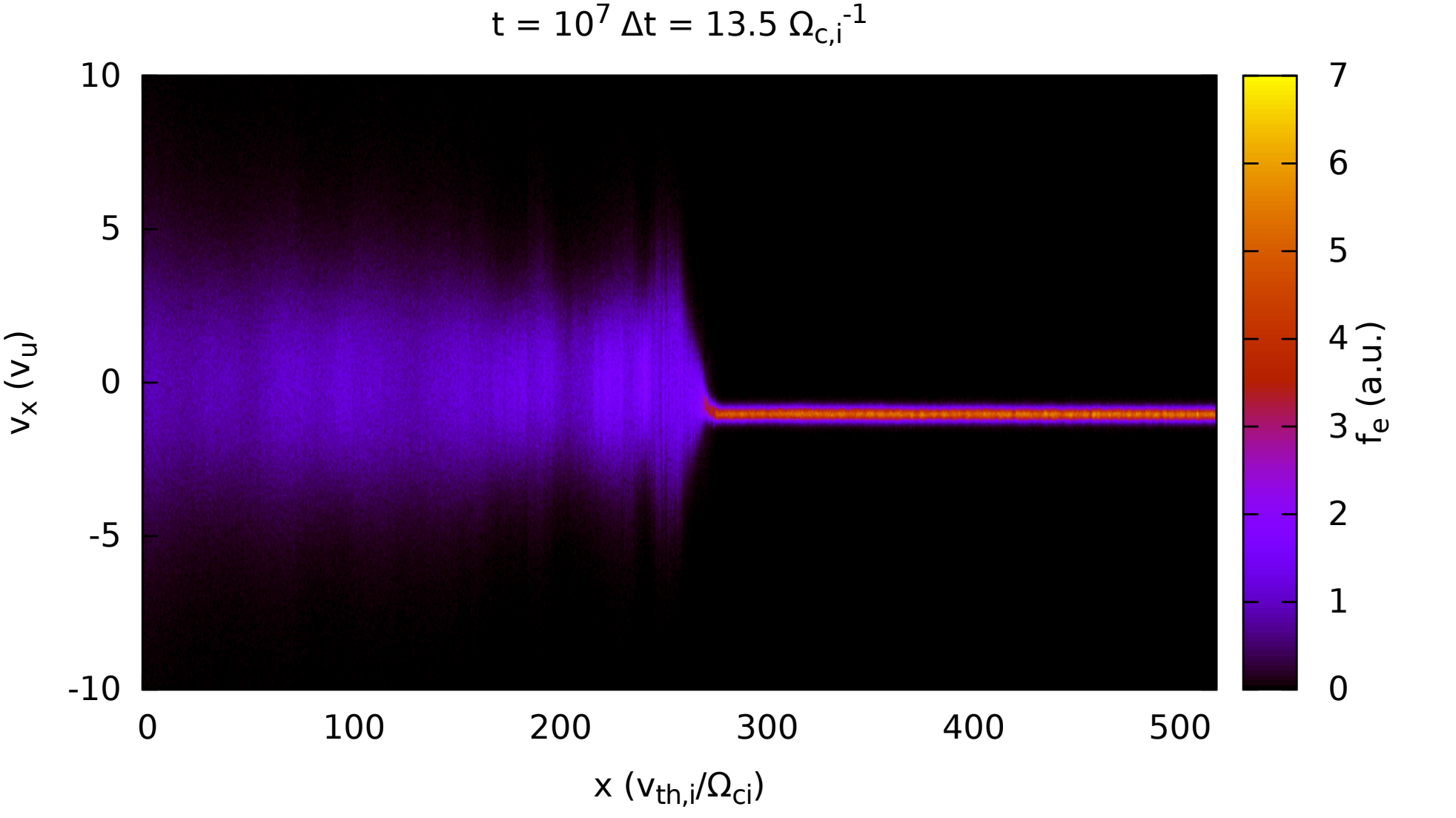
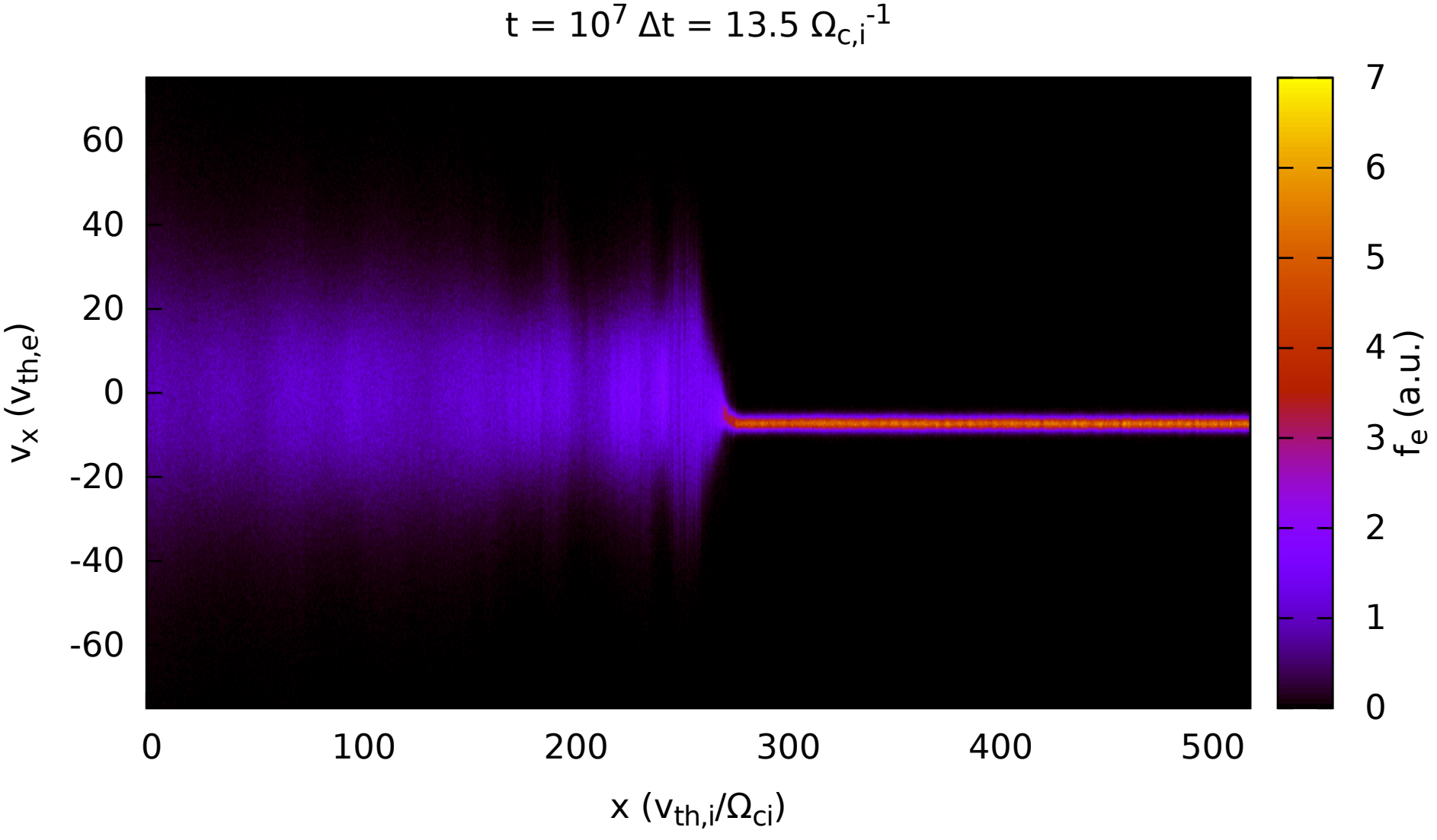
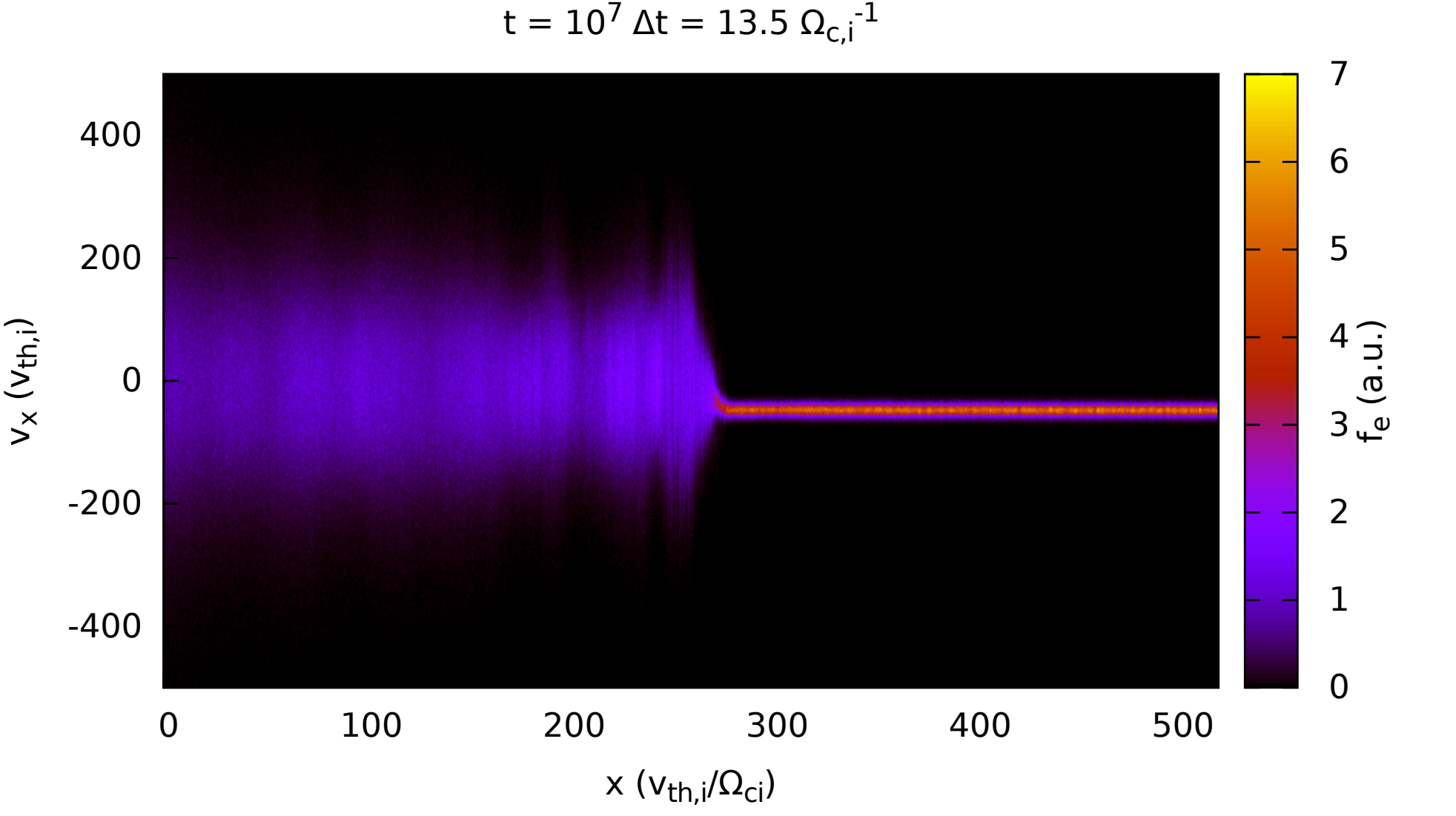
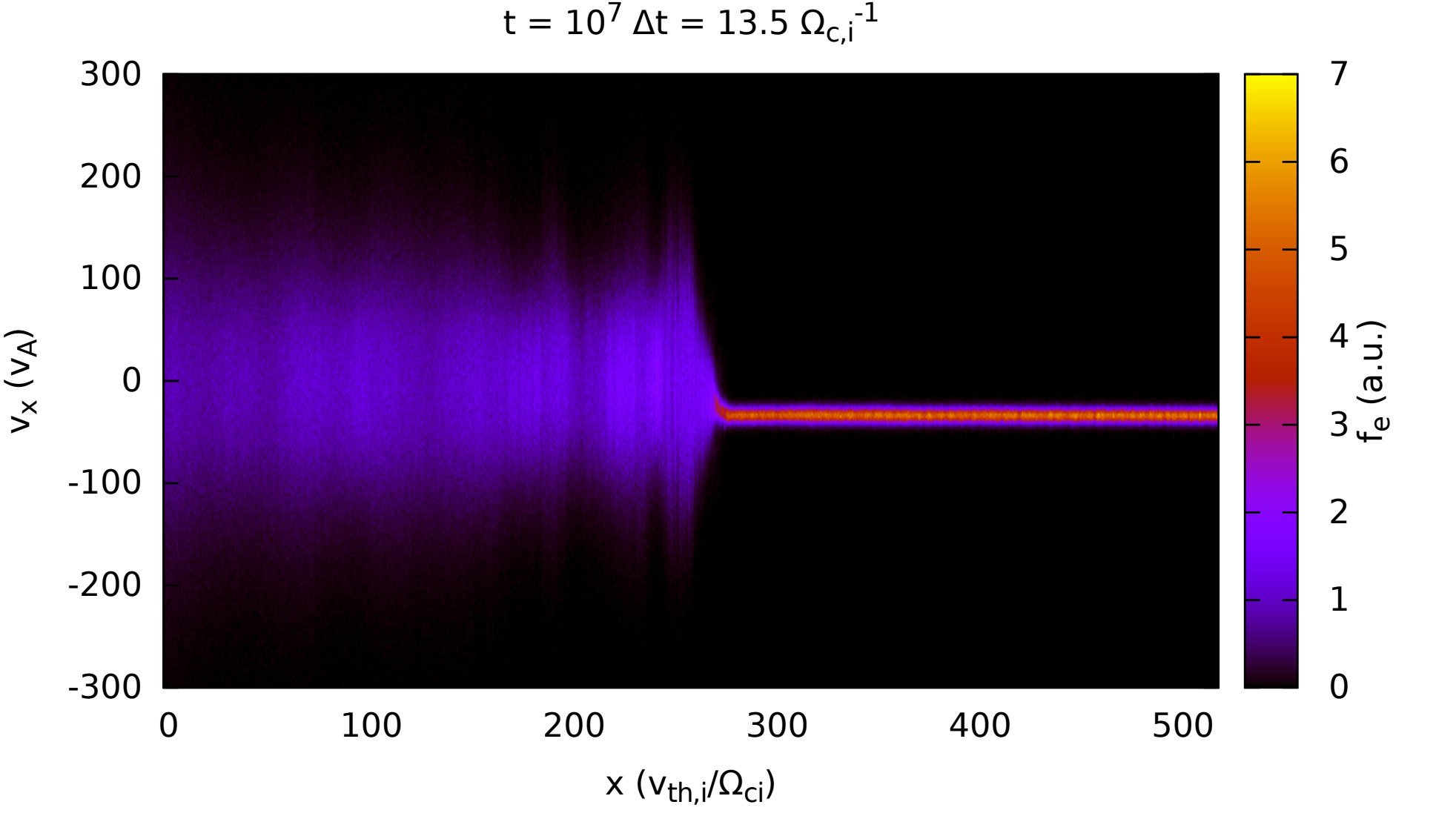
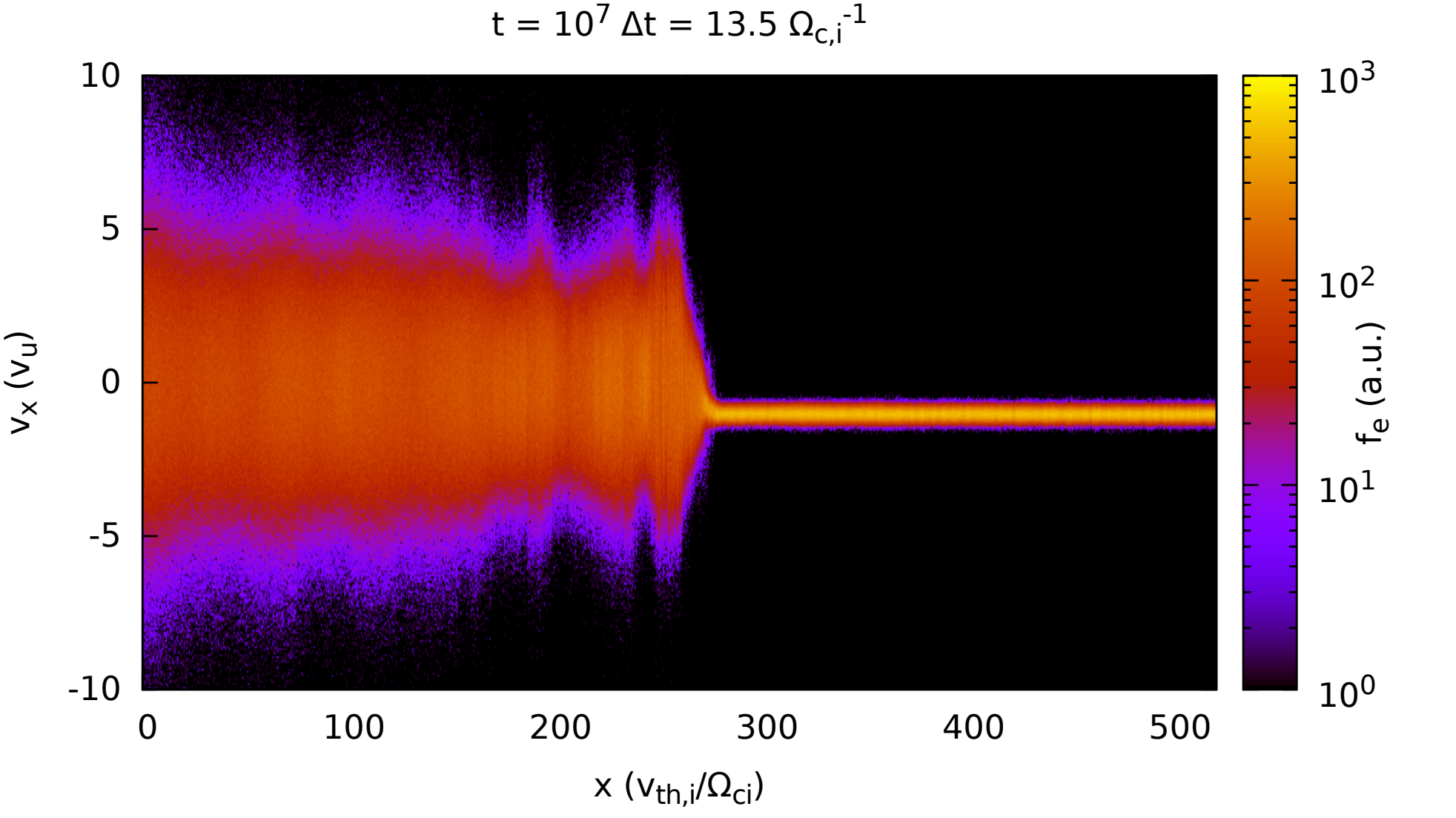
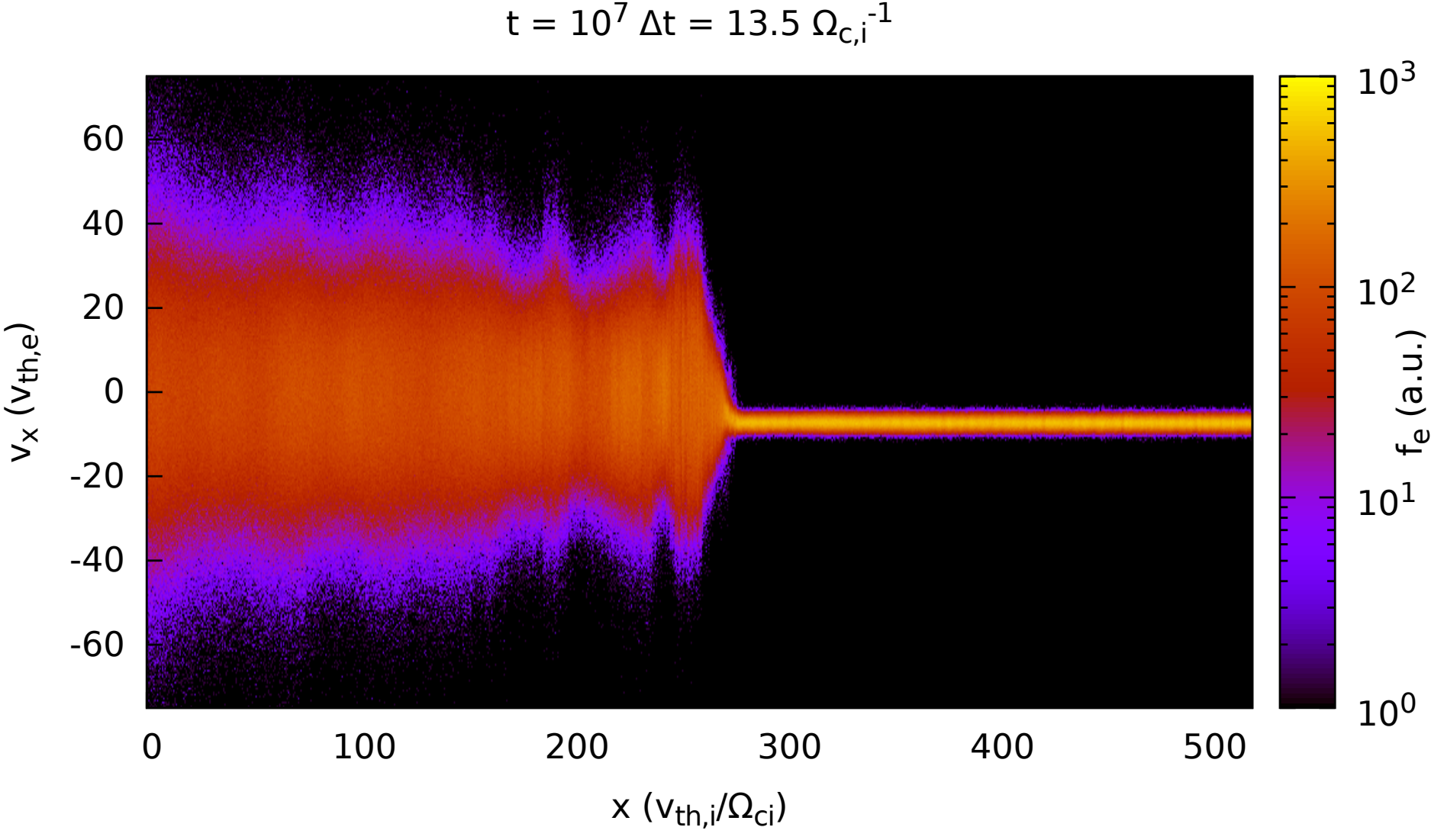

t = 10^7 Δt = 13.5 Ω_c,i^-1
10
5
0
-5
-10
v_x (v_u)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
7
6
5
4
3
2
1
0
f_e (a.u.)

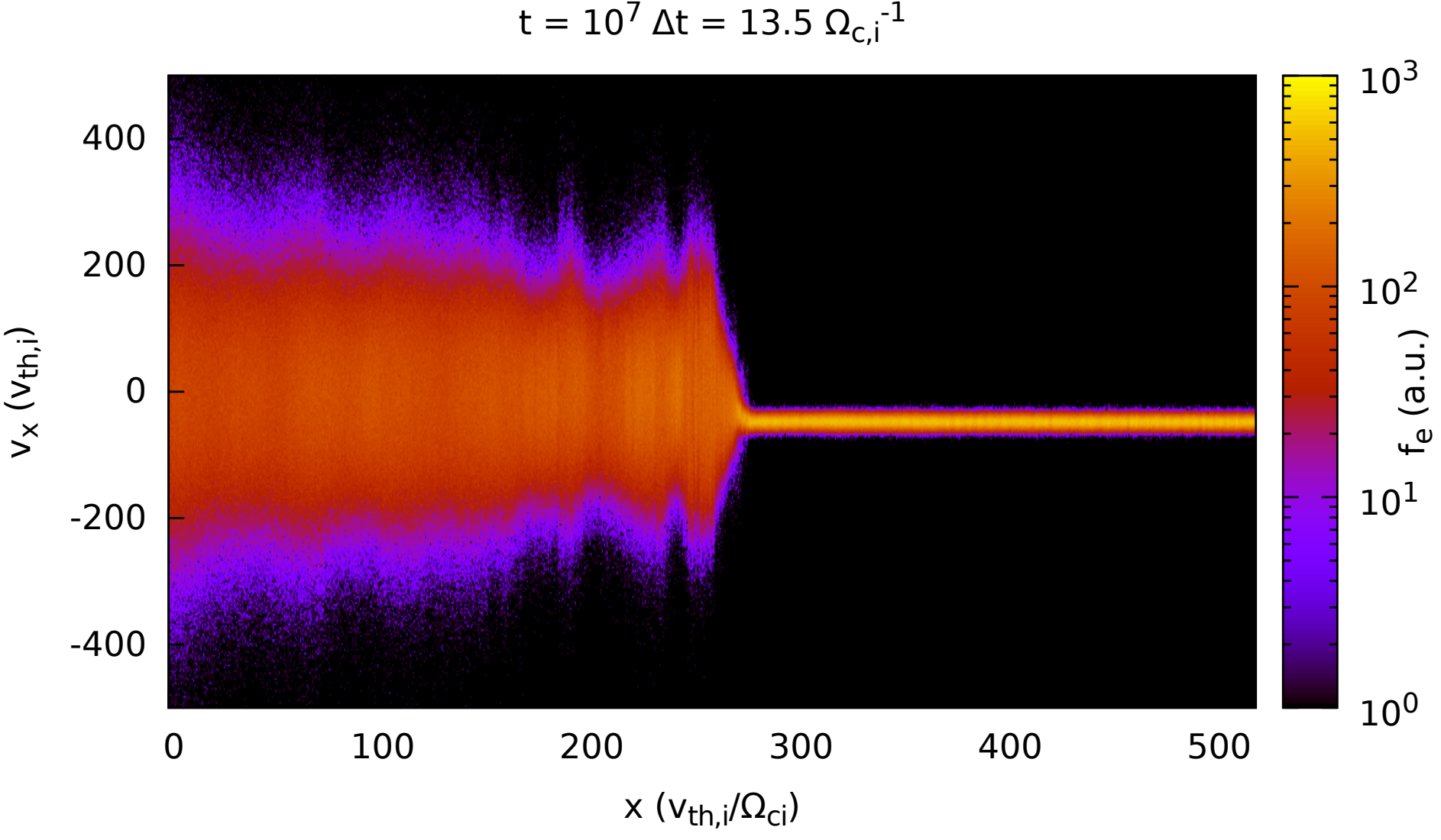

t = 10^7 Δt = 13.5 Ω_c,i^-1
60
40
20
0
-20
-40
-60
v_x (v_th,e)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
7
6
5
4
3
2
1
0
f_e (a.u.)

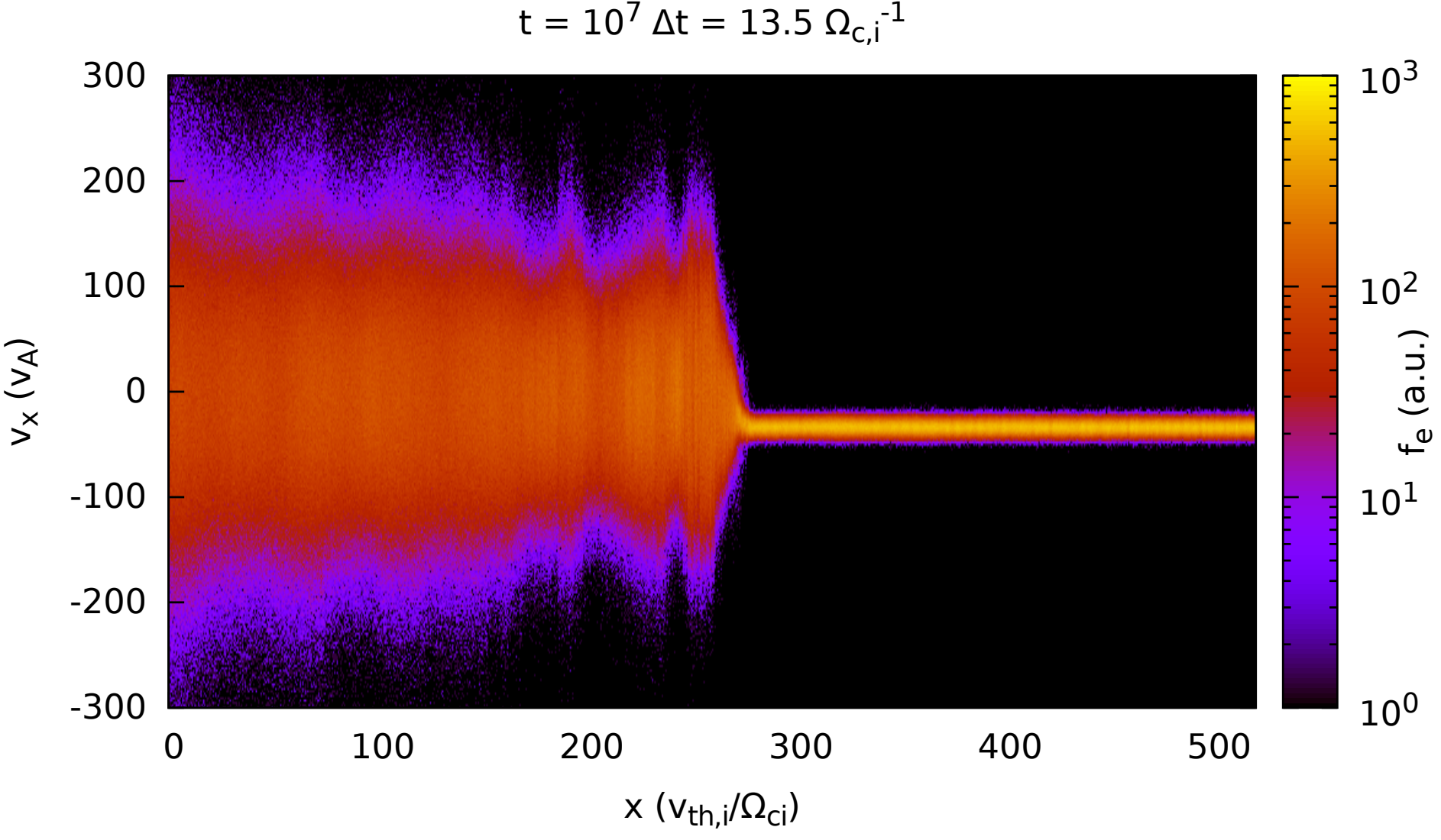

t = 10^7 Δt = 13.5 Ω_c,i^-1
400
200
0
-200
-400
v_x (v_th,i)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
7
6
5
4
3
2
1
0
f_e (a.u.)

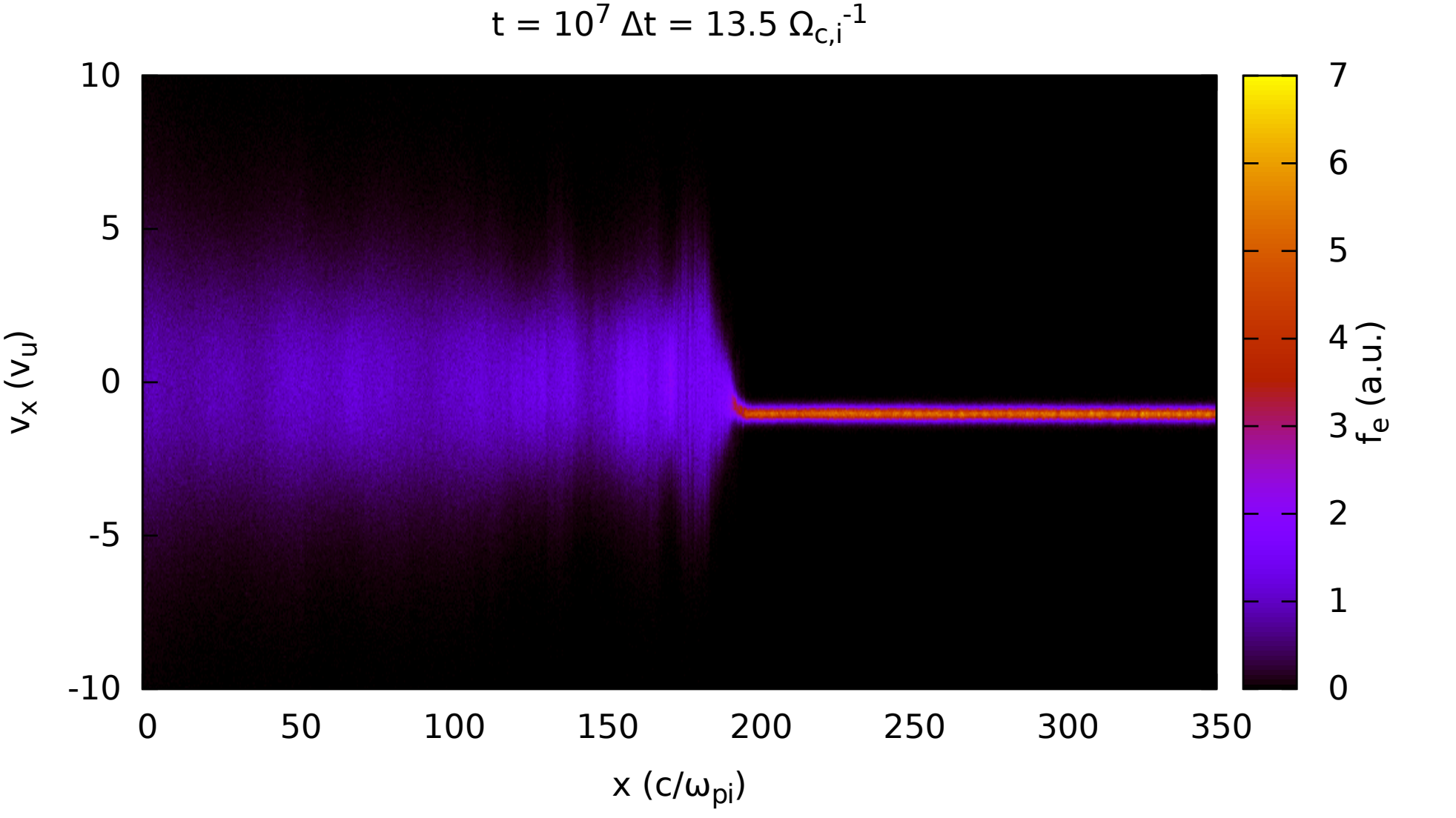

t = 10^7 Δt = 13.5 Ω_c,i^-1
300
200
100
0
-100
-200
-300
v_x (v_A)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
7
6
5
4
3
2
1
0
f_e (a.u.)

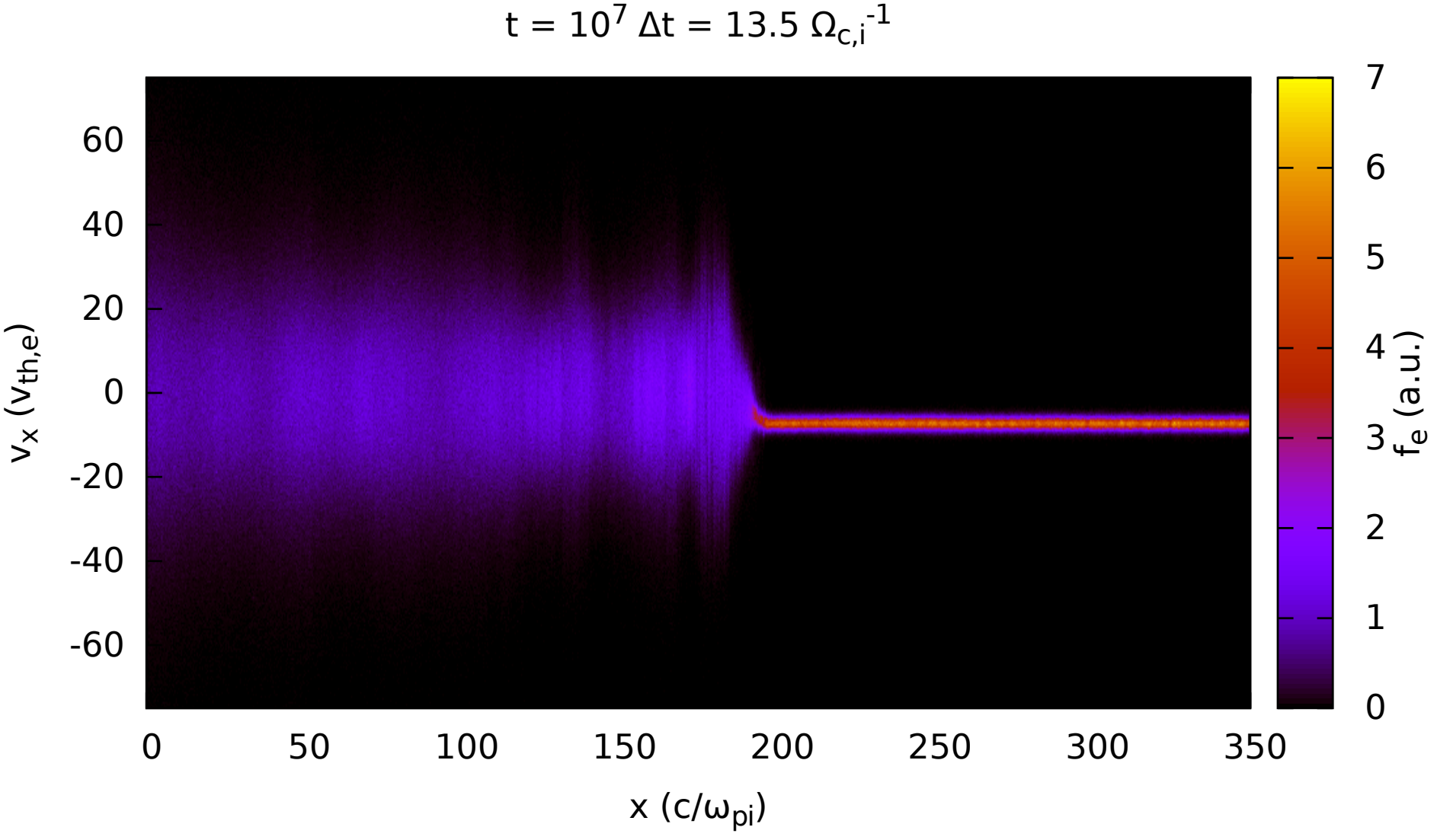

t = 10^7 Δt = 13.5 Ω_c,i^-1
10
5
0
-5
-10
v_x (v_u)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
10^3
10^2
10^1
10^0
f_e (a.u.)

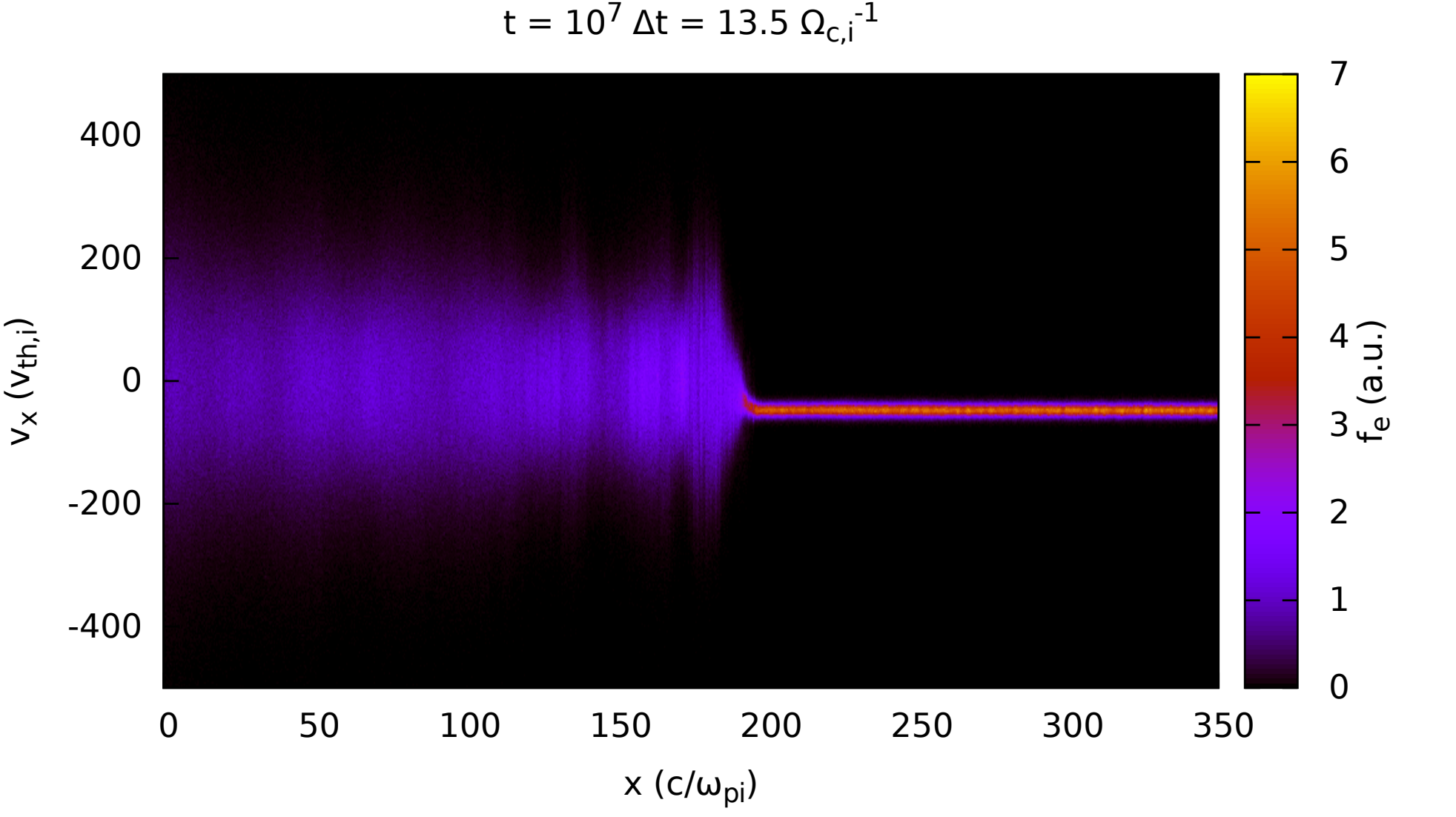

t = 10^7 Δt = 13.5 Ω_c,i^-1
60
40
20
0
-20
-40
-60
v_x (v_th,e)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
10^3
10^2
10^1
10^0
f_e (a.u.)

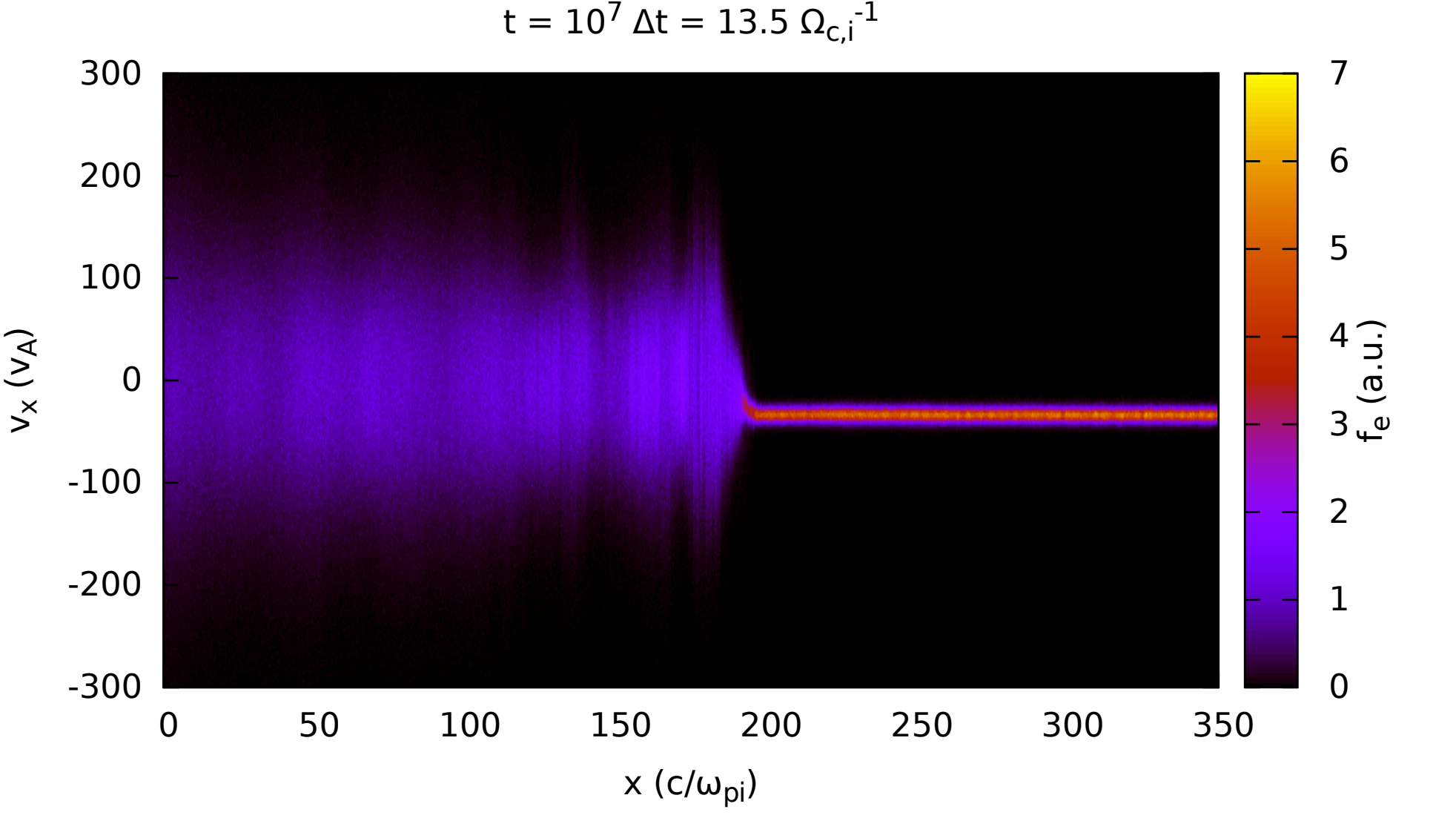

t = 10^7 Δt = 13.5 Ω_c,i^-1
400
200
0
-200
-400
v_x (v_th,i)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
10^3
10^2
10^1
10^0
f_e (a.u.)

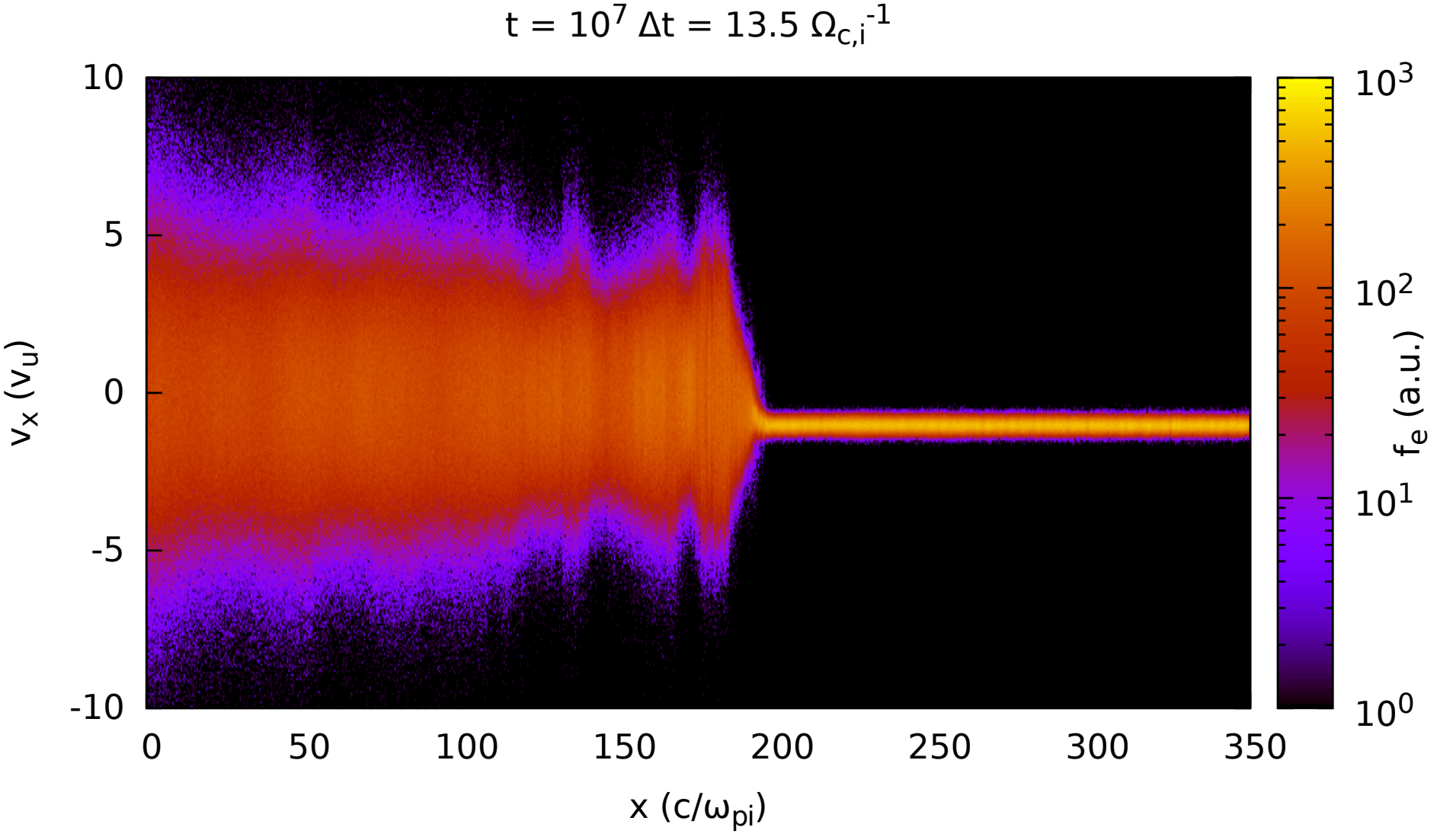

t = 10^7 Δt = 13.5 Ω_c,i^-1
300
200
100
0
-100
-200
-300
v_x (v_A)
0
100
200
300
400
500
x (v_th,i/Ω_ci)
10^3
10^2
10^1
10^0
f_e (a.u.)

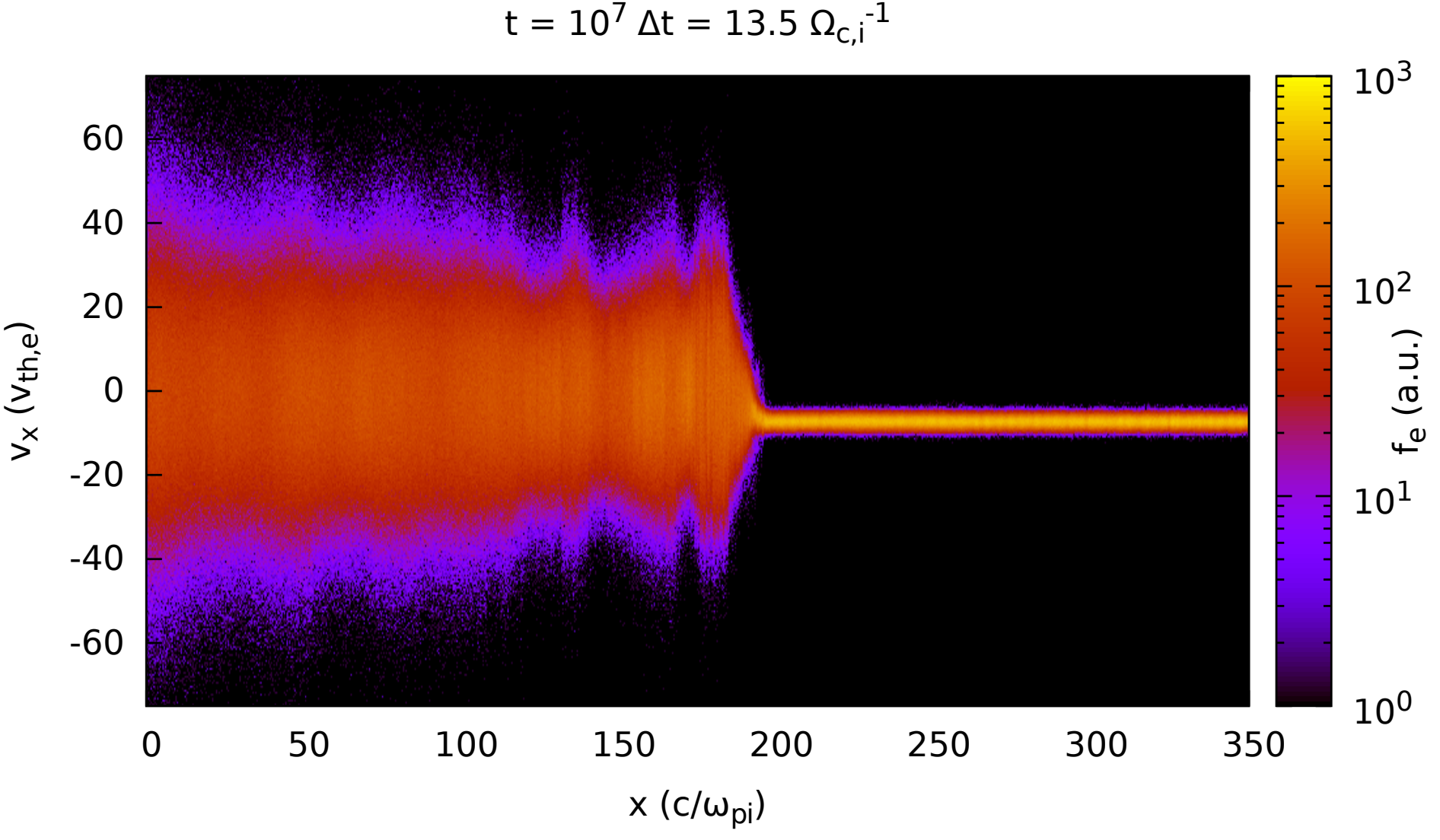

t = 10^7 Δt = 13.5 Ω_c,i^-1
10
5
0
-5
-10
v_x (v_u)
0
50
100
150
200
250
300
350
x (c/ω_pi)
7
6
5
4
3
2
1
0
f_e (a.u.)

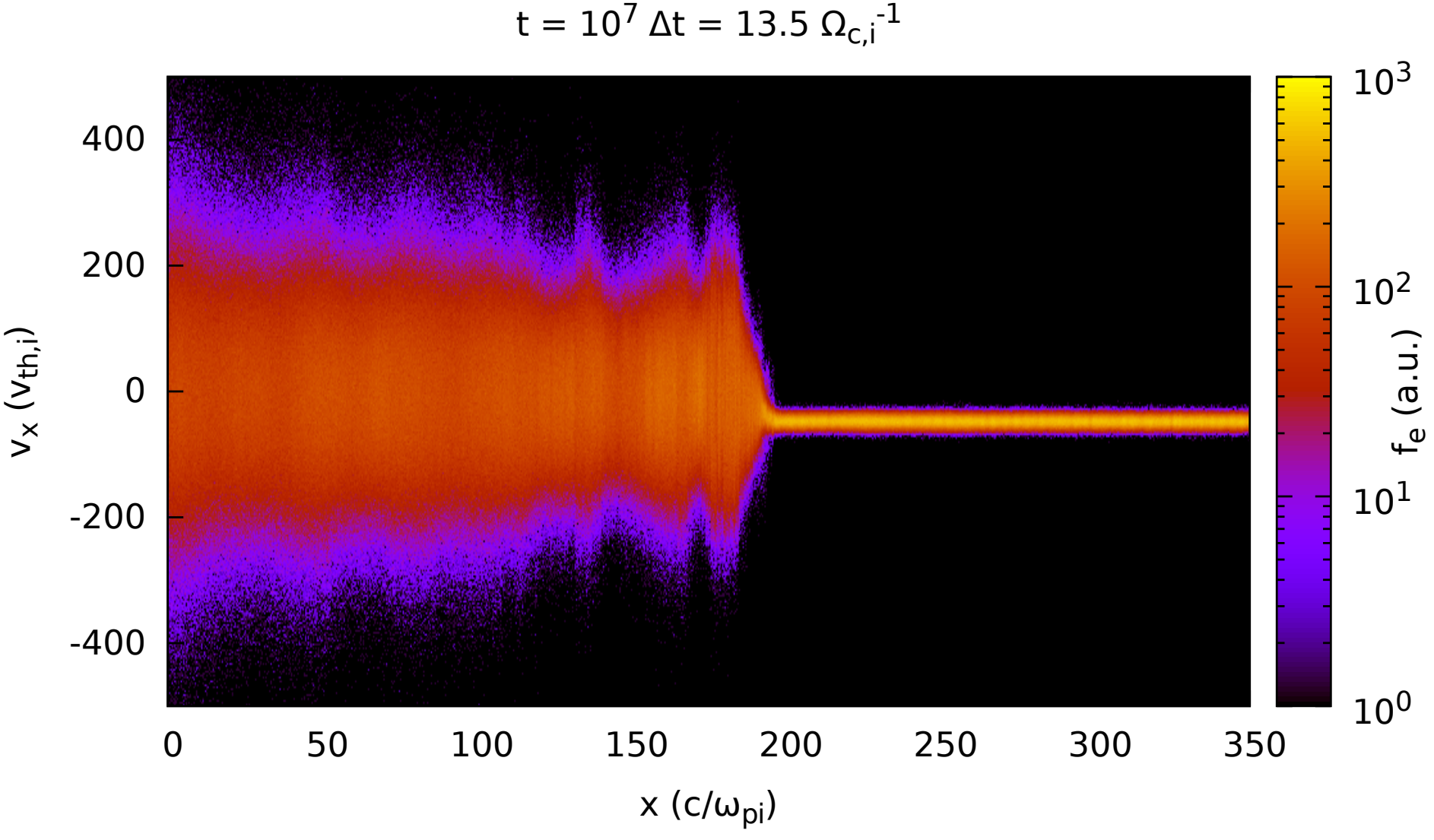

t = 10^7 Δt = 13.5 Ω_c,i^-1
v_x (v_th,e)
60
40
20
0
-20
-40
-60
0
50
100
150
200
250
300
350
x (c/ω_pi)
7
6
5
4
3
2
1
0
f_e (a.u.)

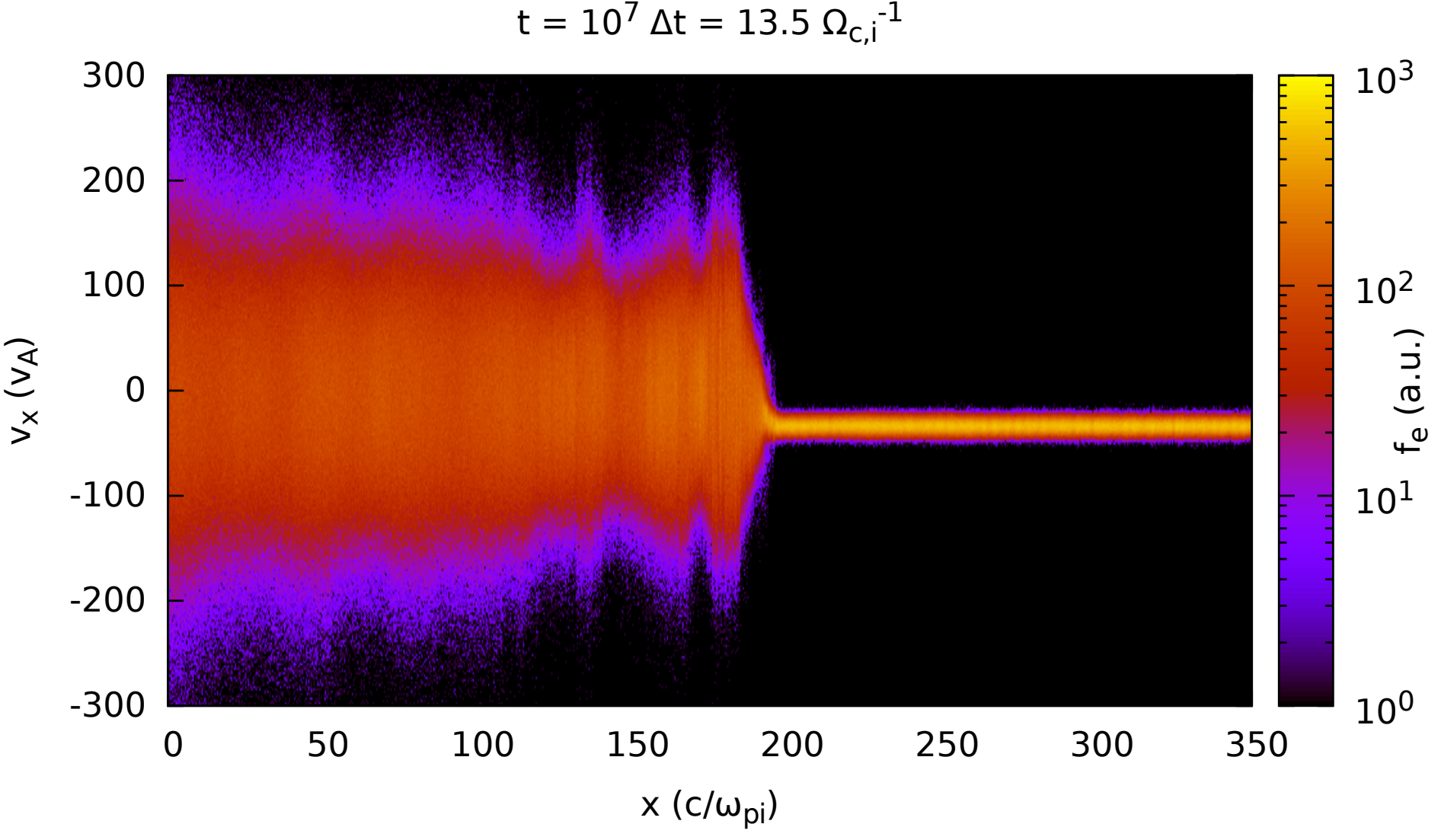

t = 10^7 Δt = 13.5 Ω_c,i^-1
400
200
0
-200
-400
v_x (v_th,i)
0
50
100
150
200
250
300
350
x (c/ω_pi)
7
6
5
4
3
2
1
0
f_e (a.u.)

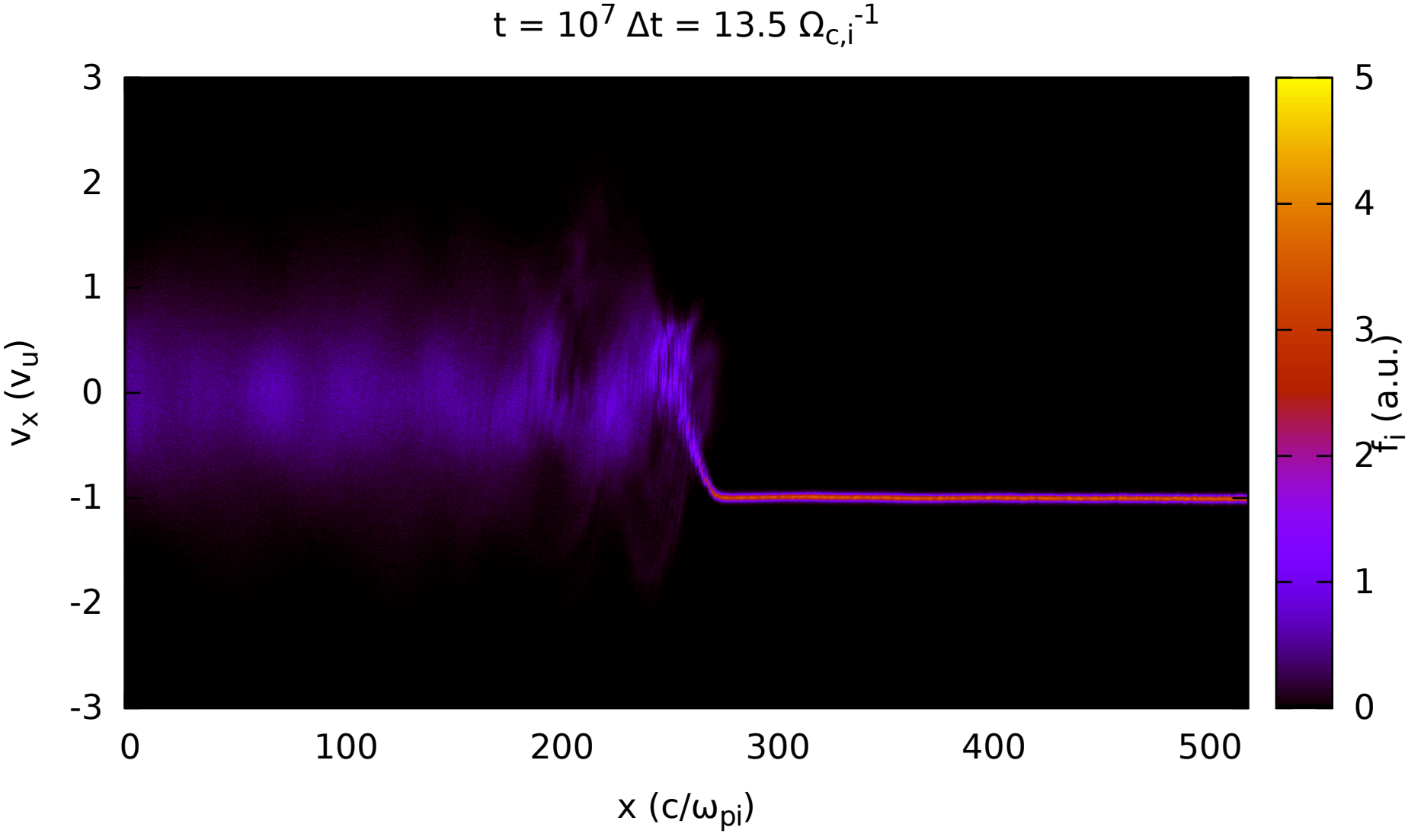

t = 10^7 Δt = 13.5 Ω_c,i^-1
300
200
100
0
-100
-200
-300
v_x (v_A)
0
50
100
150
200
250
300
350
x (c/ω_pi)
7
6
5
4
3
2
1
0
f_e (a.u.)

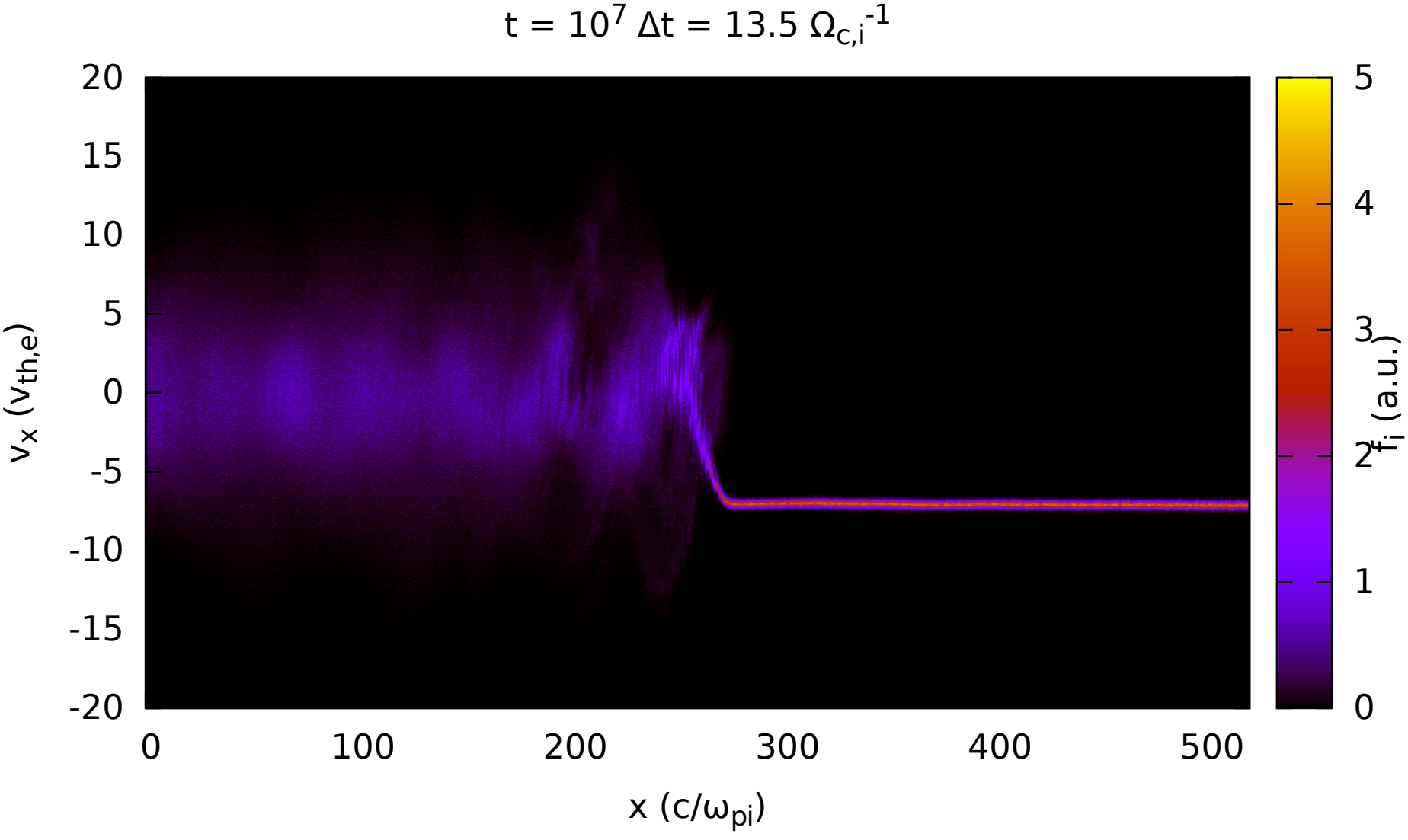

t = 10^7 Δt = 13.5 Ω_c,i^-1
10
5
0
-5
-10
v_x (v_u)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_e (a.u.)

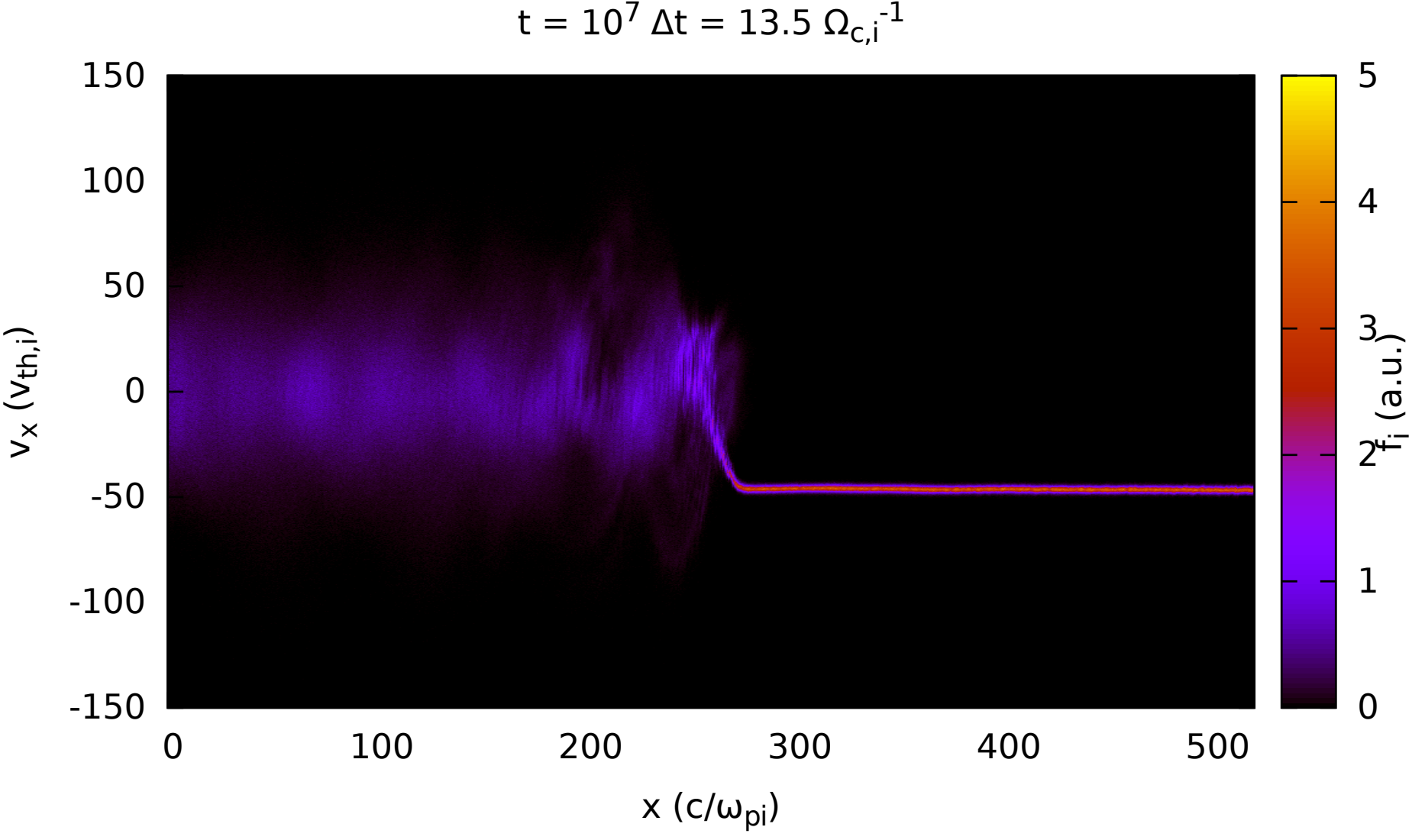

t = 10^7 Δt = 13.5 Ω_c,i^-1
60
40
20
0
-20
-40
-60
v_x (v_th,e)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_e (a.u.)

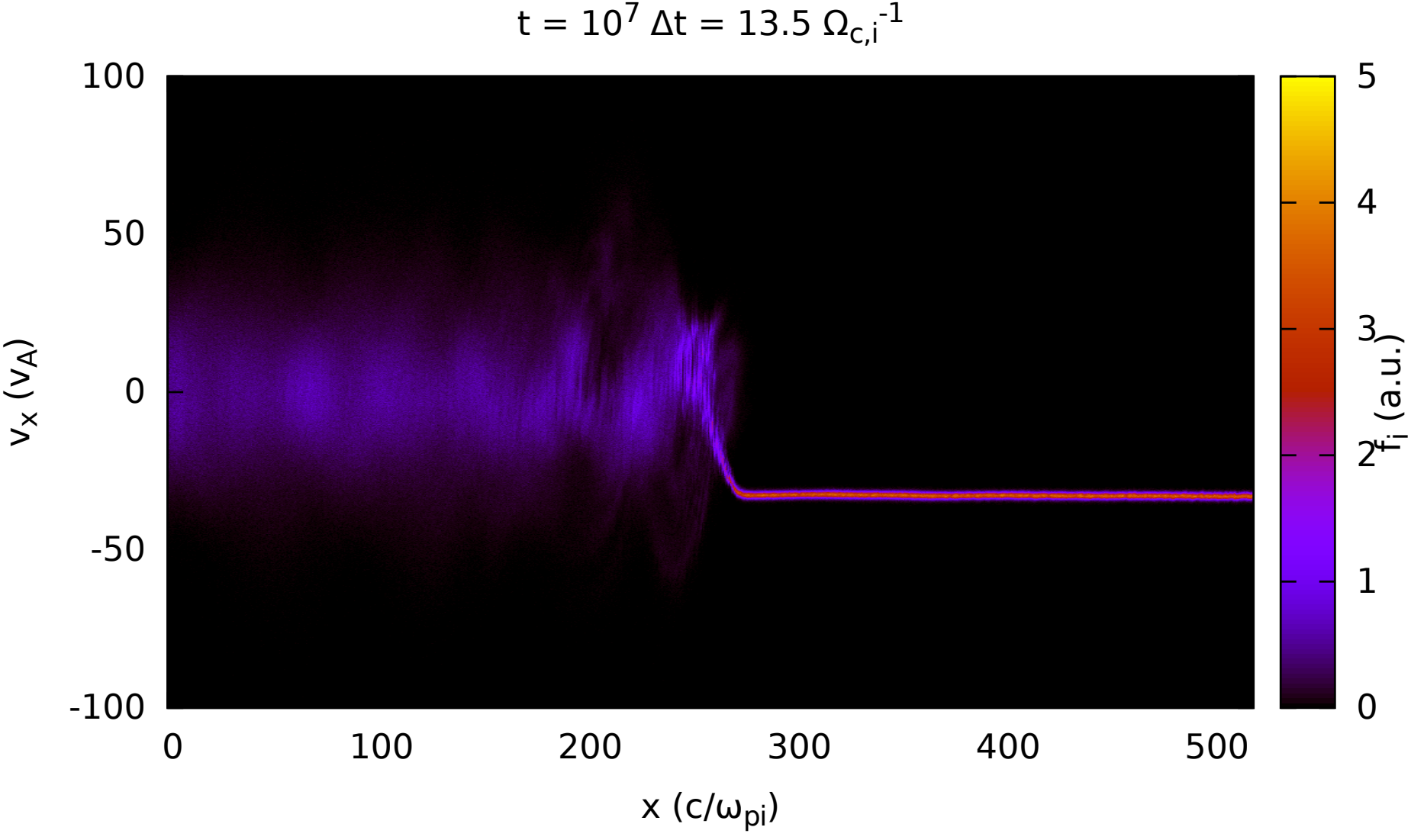

t = 10^7 Δt = 13.5 Ω_c,i^-1
400
200
0
-200
-400
v_x (v_th,i)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_e (a.u.)

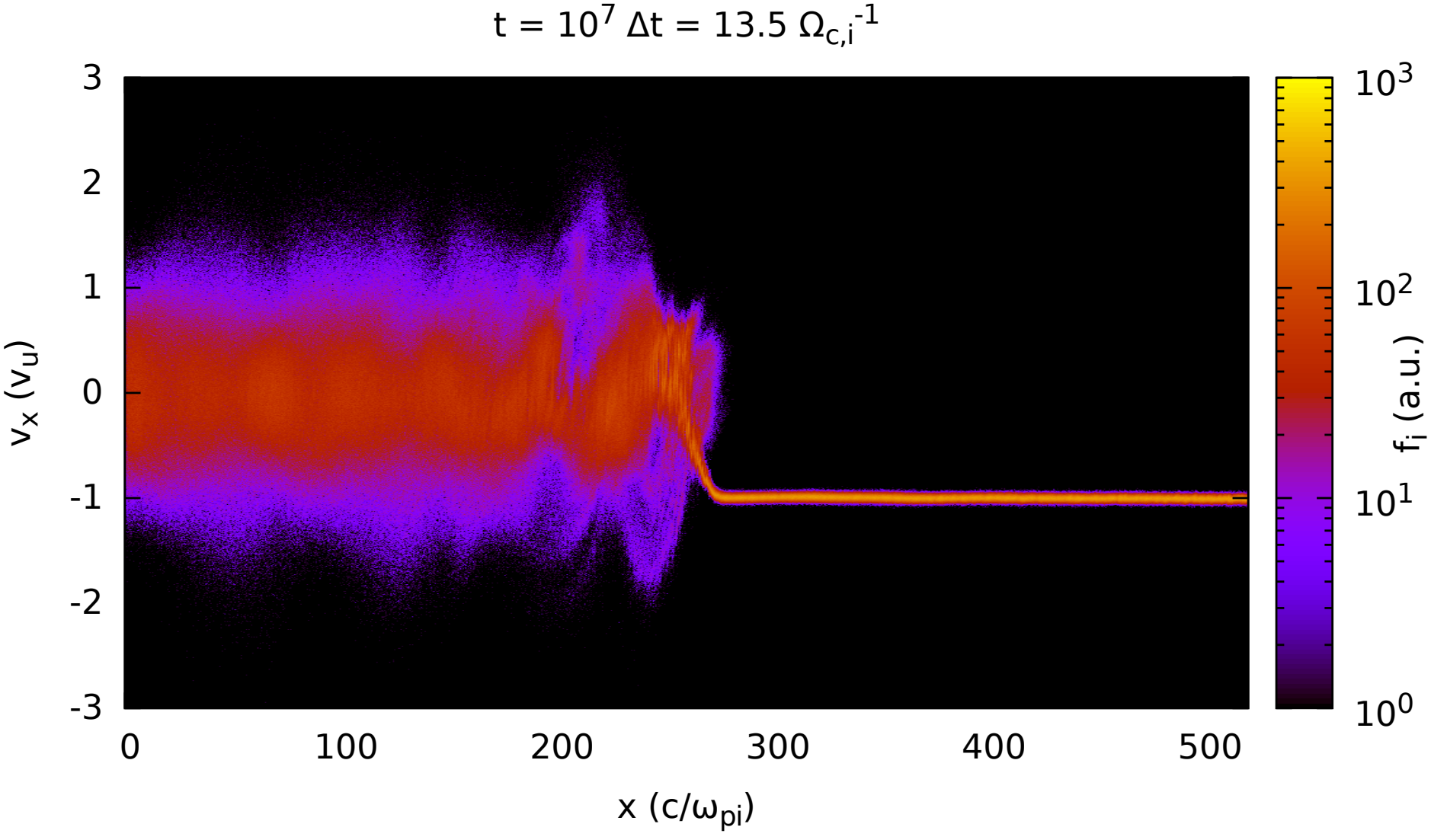

t = 10^7 Δt = 13.5 Ω_c,i^-1
300
200
100
0
-100
-200
-300
v_x (v_A)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_e (a.u.)

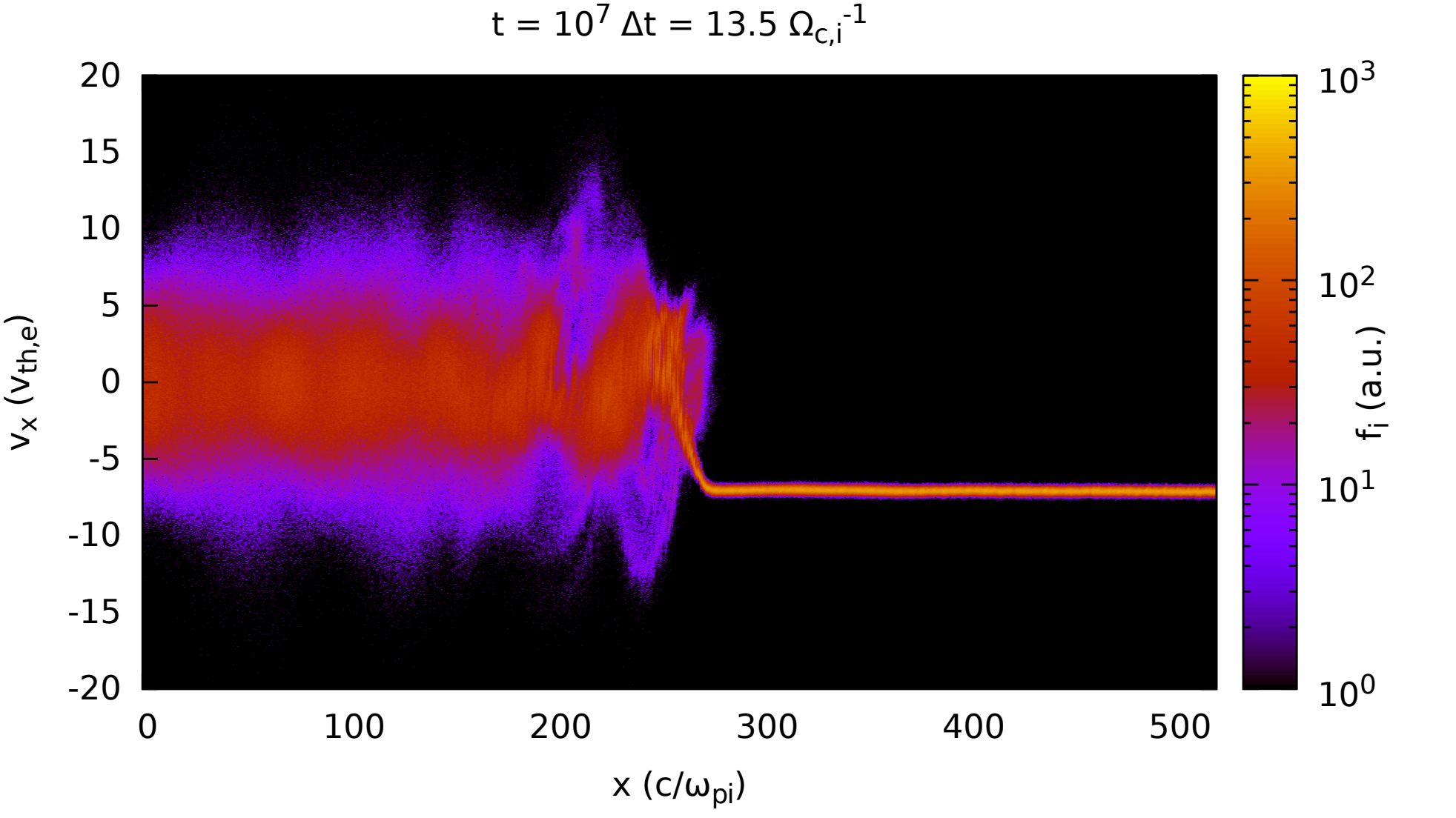

t = 10^7 Δt = 13.5 Ω_c,i^-1
3
2
1
0
-1
-2
-3
v_x (v_u)
0
100
200
300
400
500
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)

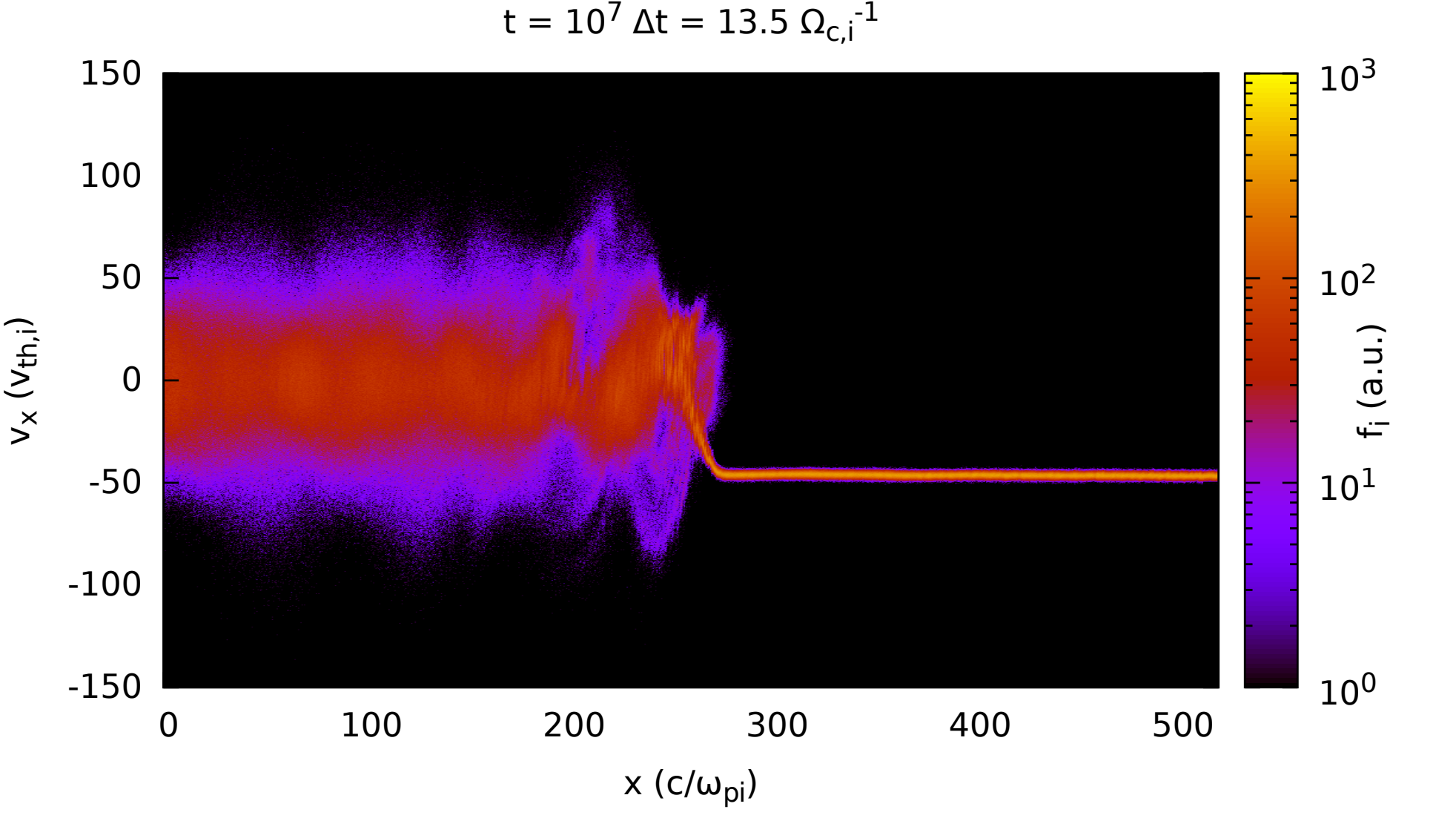

t = 10^7 Δt = 13.5 Ω_c,i^-1
20
15
10
5
0
-5
-10
-15
-20
v_x (v_th,e)
0
100
200
300
400
500
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)

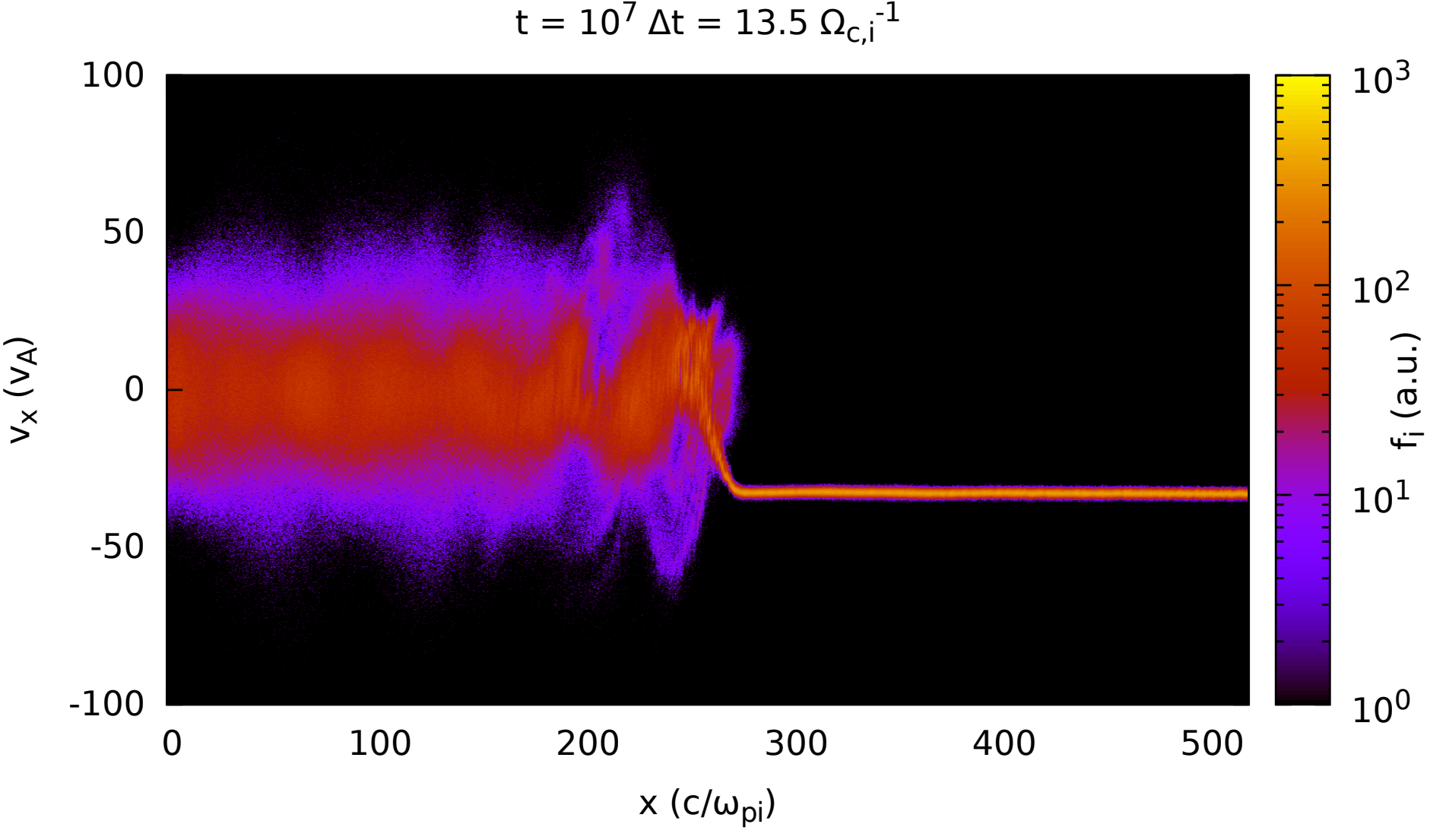

t = 10^7 Δt = 13.5 Ω_c,i^-1
150
100
50
0
-50
-100
-150
v_x (v_th,i)
0
100
200
300
400
500
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)

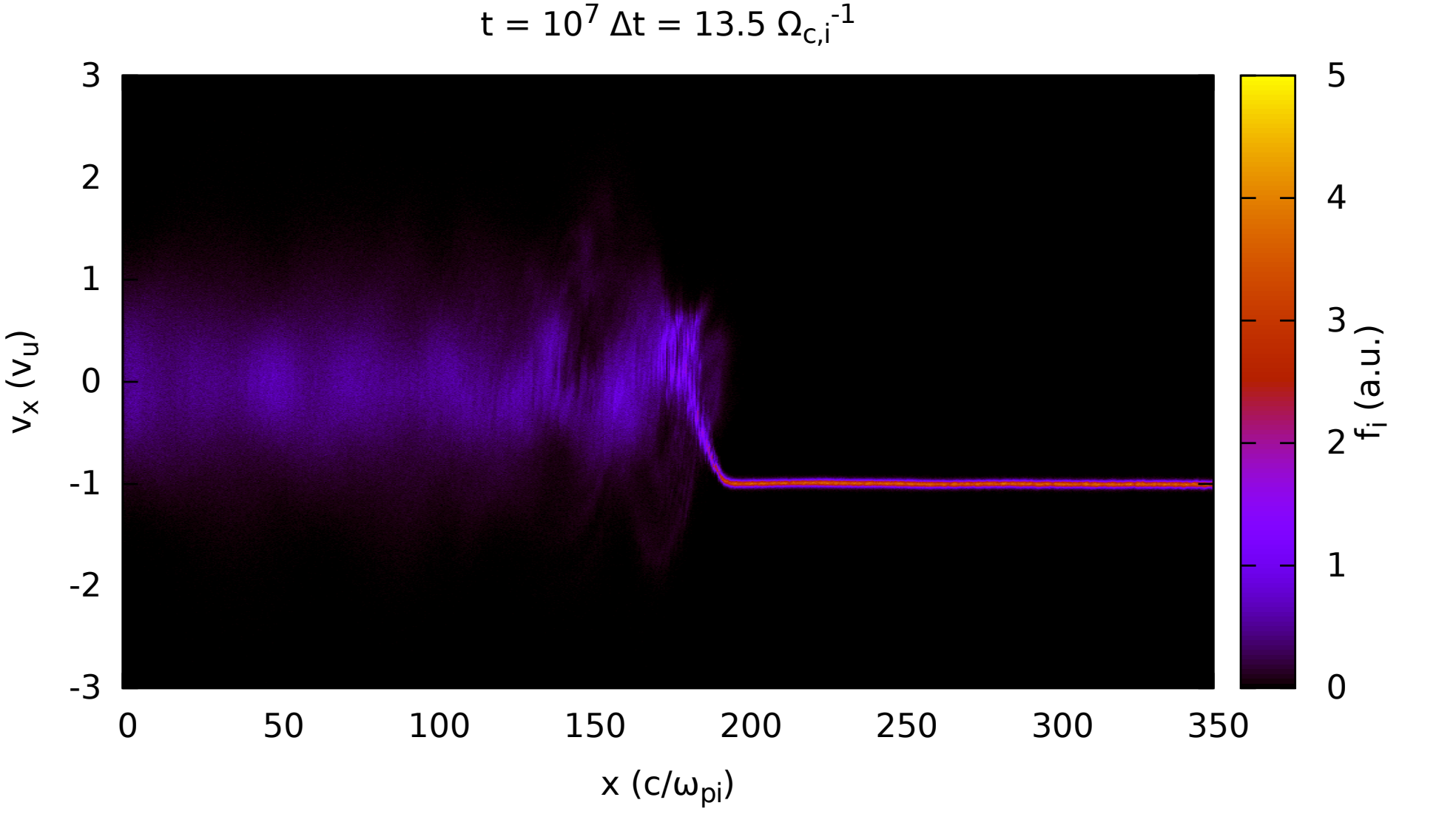

t = 10^7 Δt = 13.5 Ω_c,i^-1
100
50
0
-50
-100
v_x (v_A)
0
100
200
300
400
500
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)

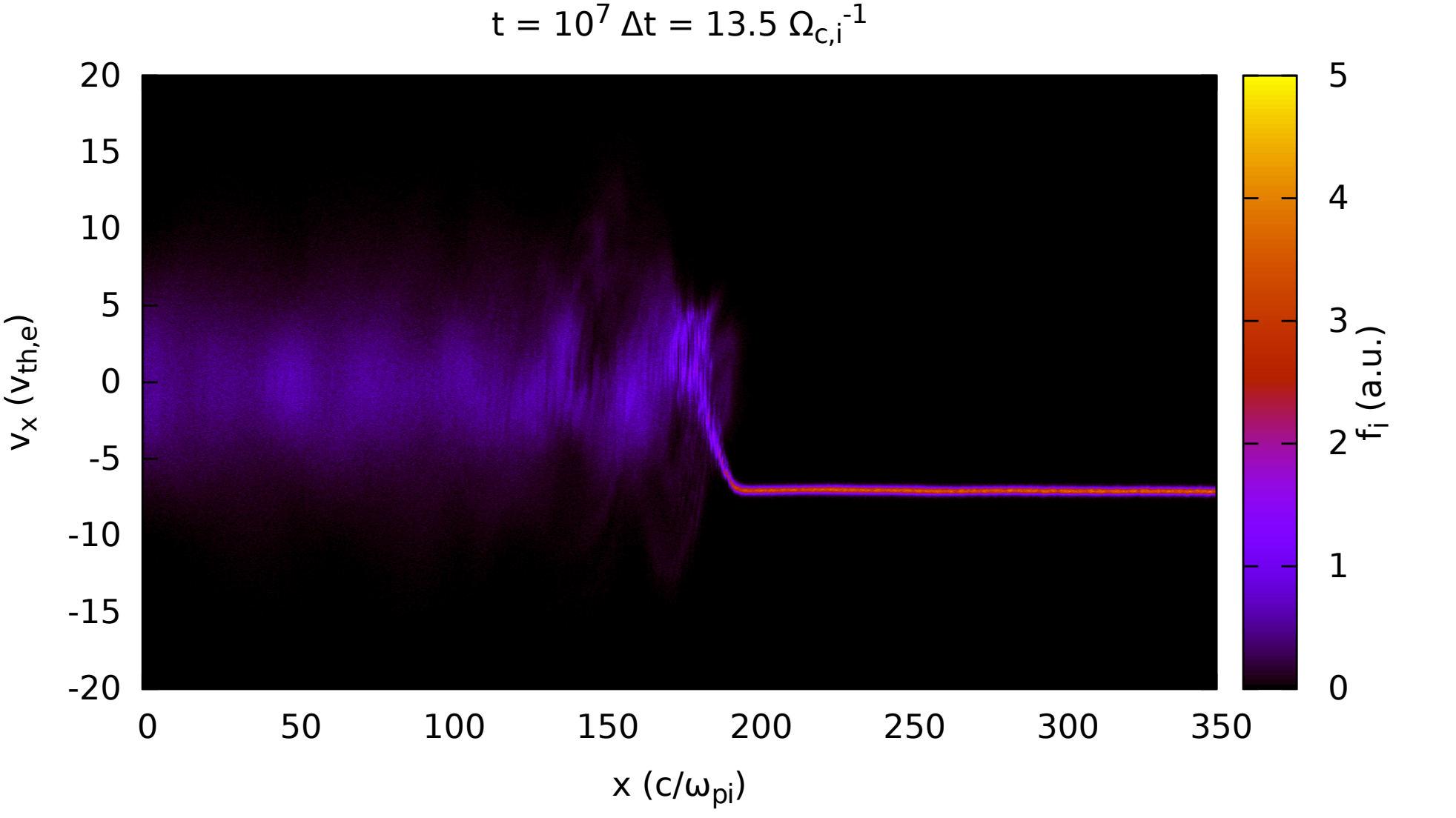

t = 10^7 Δt = 13.5 Ω_c,i^-1
3
2
1
0
-1
-2
-3
v_x (v_u)
0
100
200
300
400
500
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)

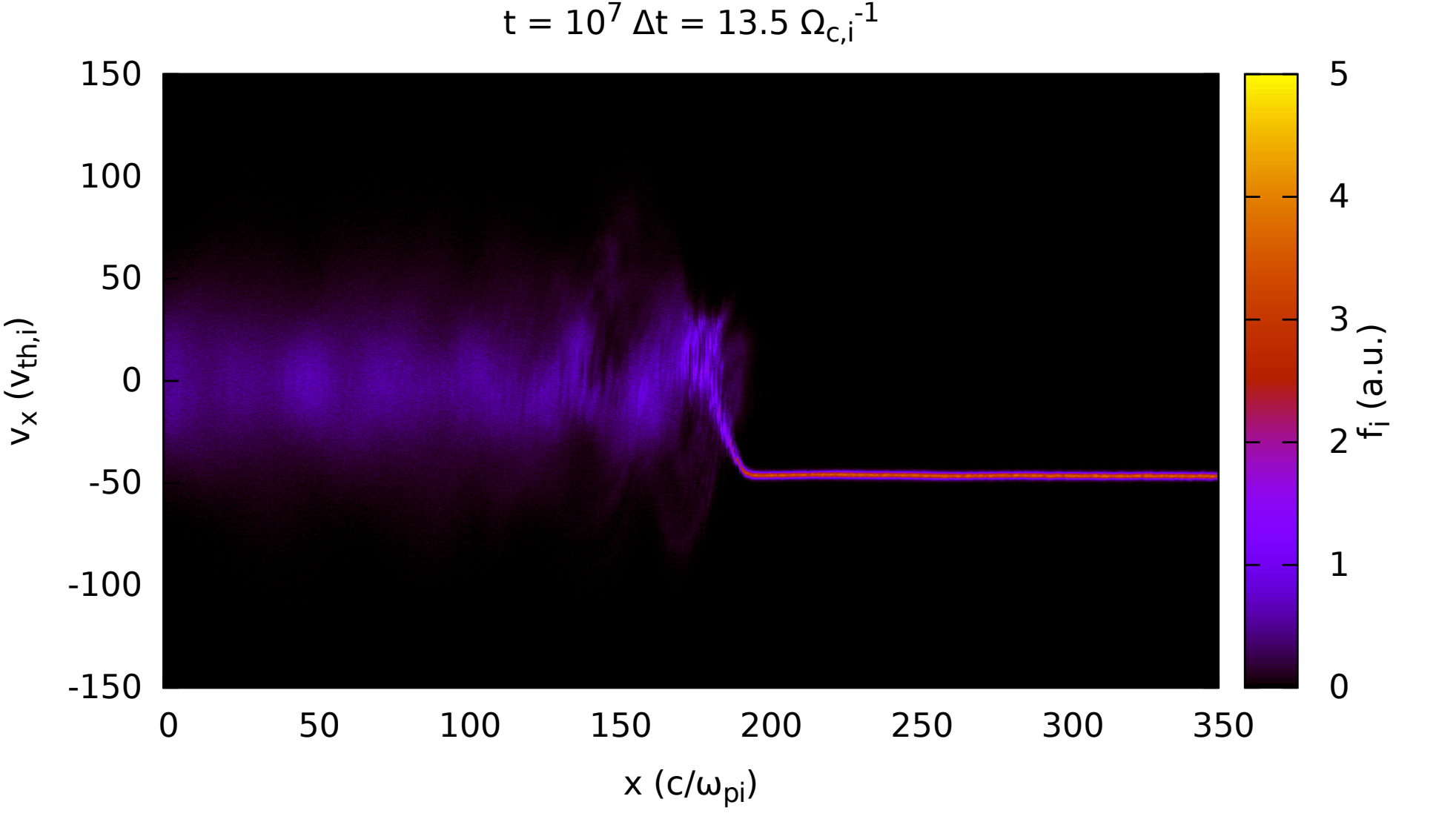

t = 10^7 Δt = 13.5 Ω_c,i^-1
20
15
10
5
0
-5
-10
-15
-20
v_x (v_th,e)
0
100
200
300
400
500
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)

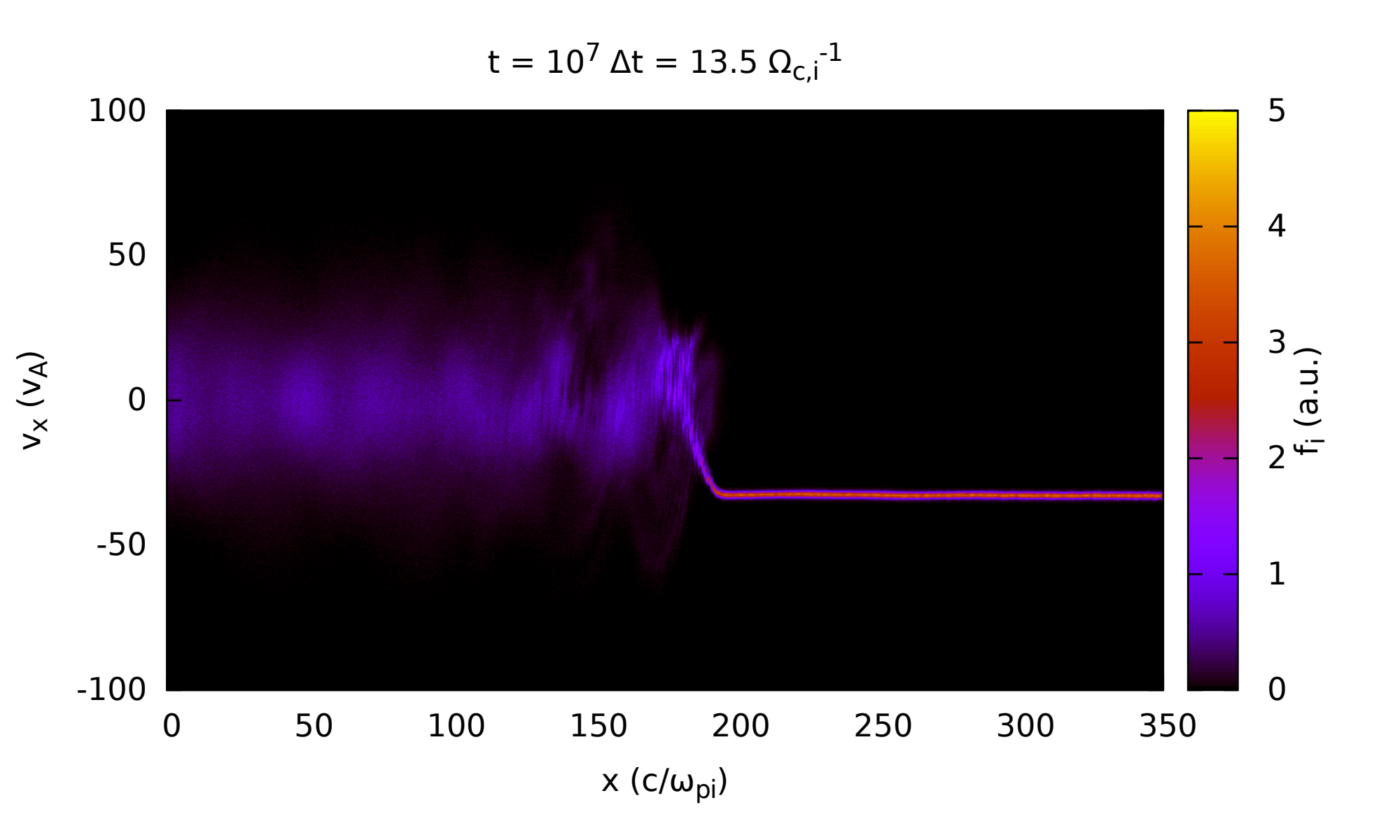

t = 10^7 Δt = 13.5 Ω_c,i^-1
150
100
50
0
-50
-100
-150
v_x (v_th,i)
0
100
200
300
400
500
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)

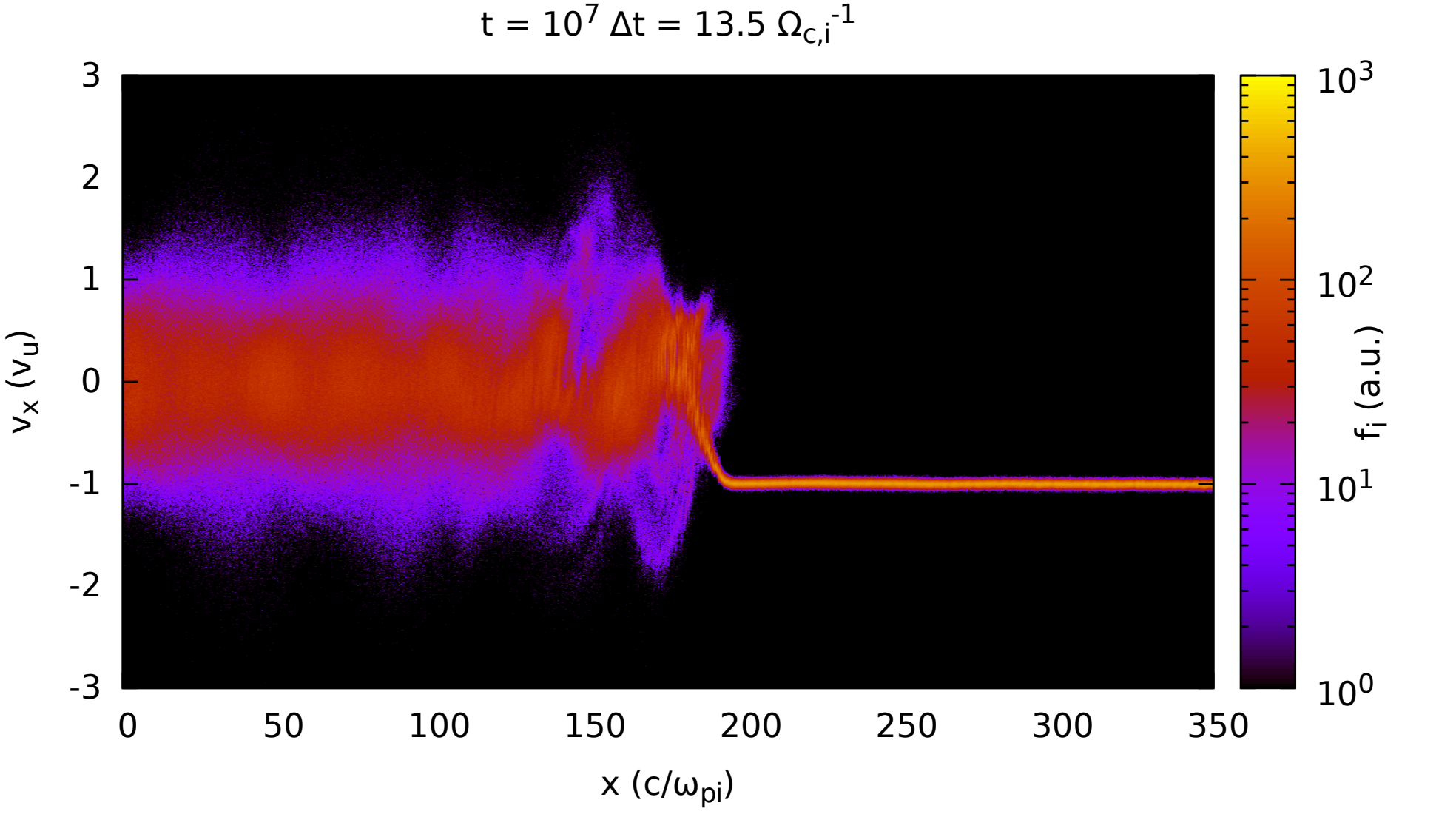

t = 10^7 Δt = 13.5 Ω_c,i^-1
100
50
0
-50
-100
v_x (v_A)
0
100
200
300
400
500
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)

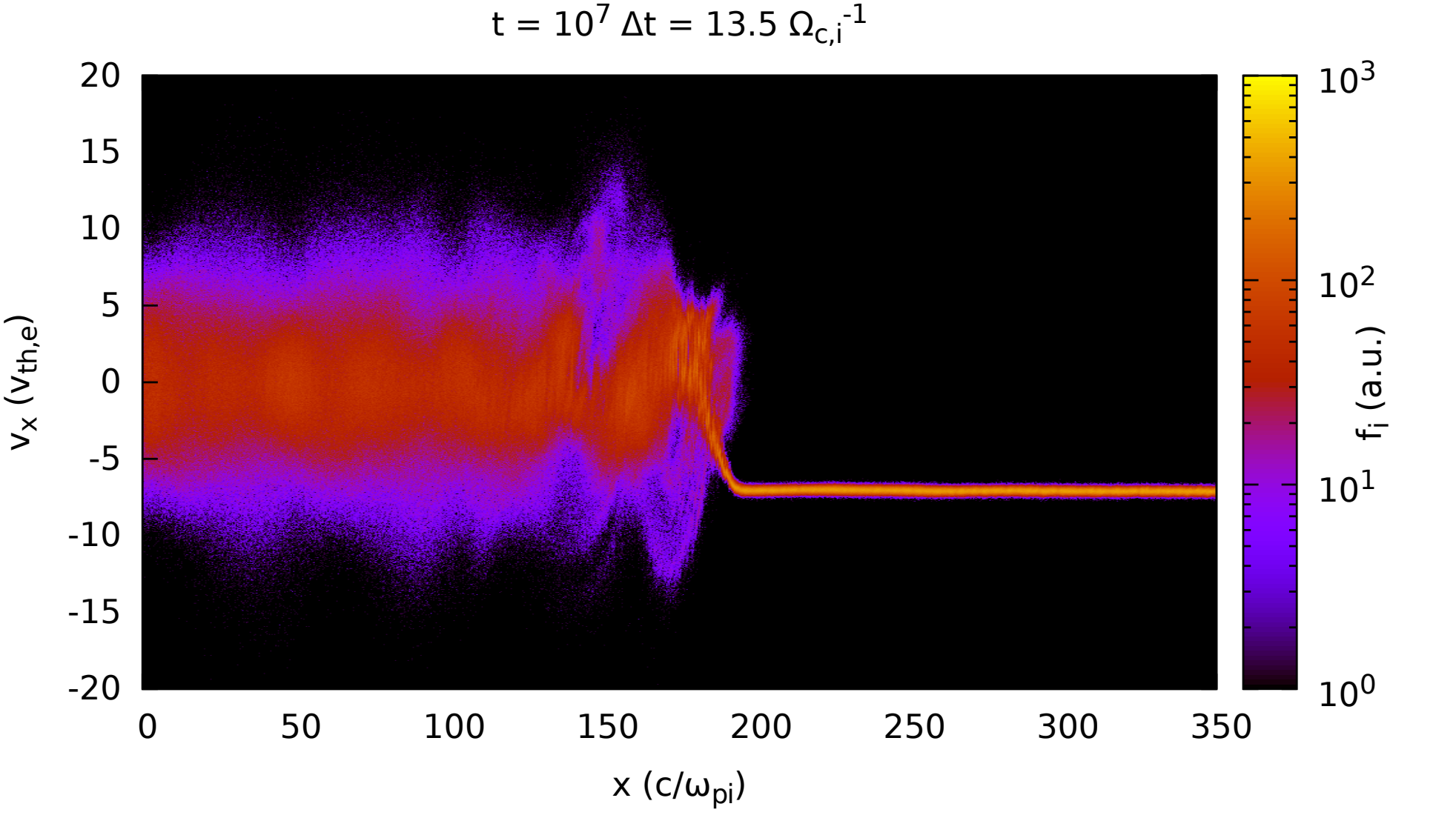

t = 10^7 Δt = 13.5 Ω_c,i^-1
v_x (v_u)
x (c/ω_pi)
f_i (a.u.)
3
2
1
0
-1
-2
-3
0
50
100
150
200
250
300
350
5
4
3
2
1
0

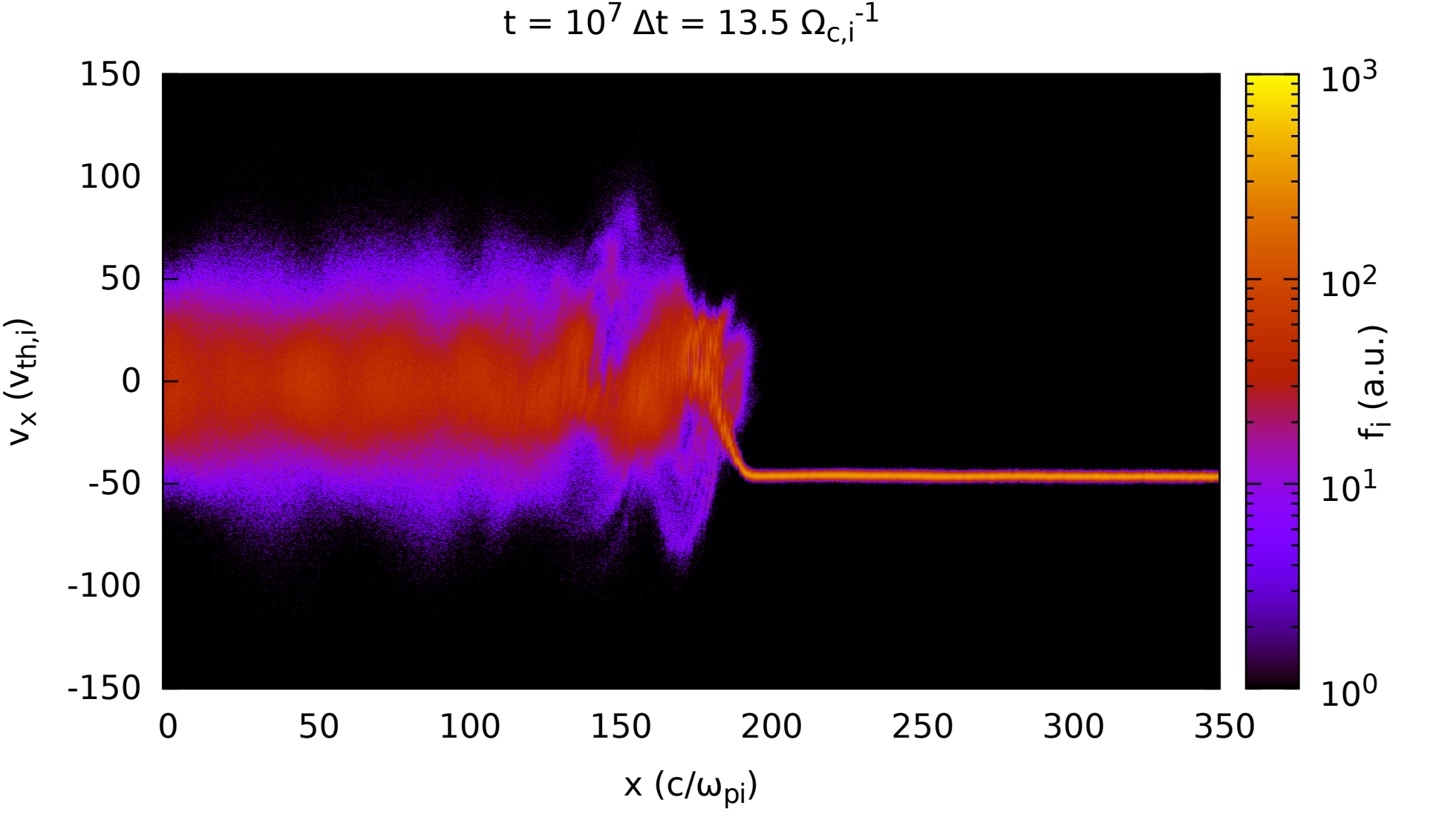

t = 10^7 Δt = 13.5 Ω_c,i^-1
20
15
10
5
0
-5
-10
-15
-20
v_x (v_th,e)
0
50
100
150
200
250
300
350
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)

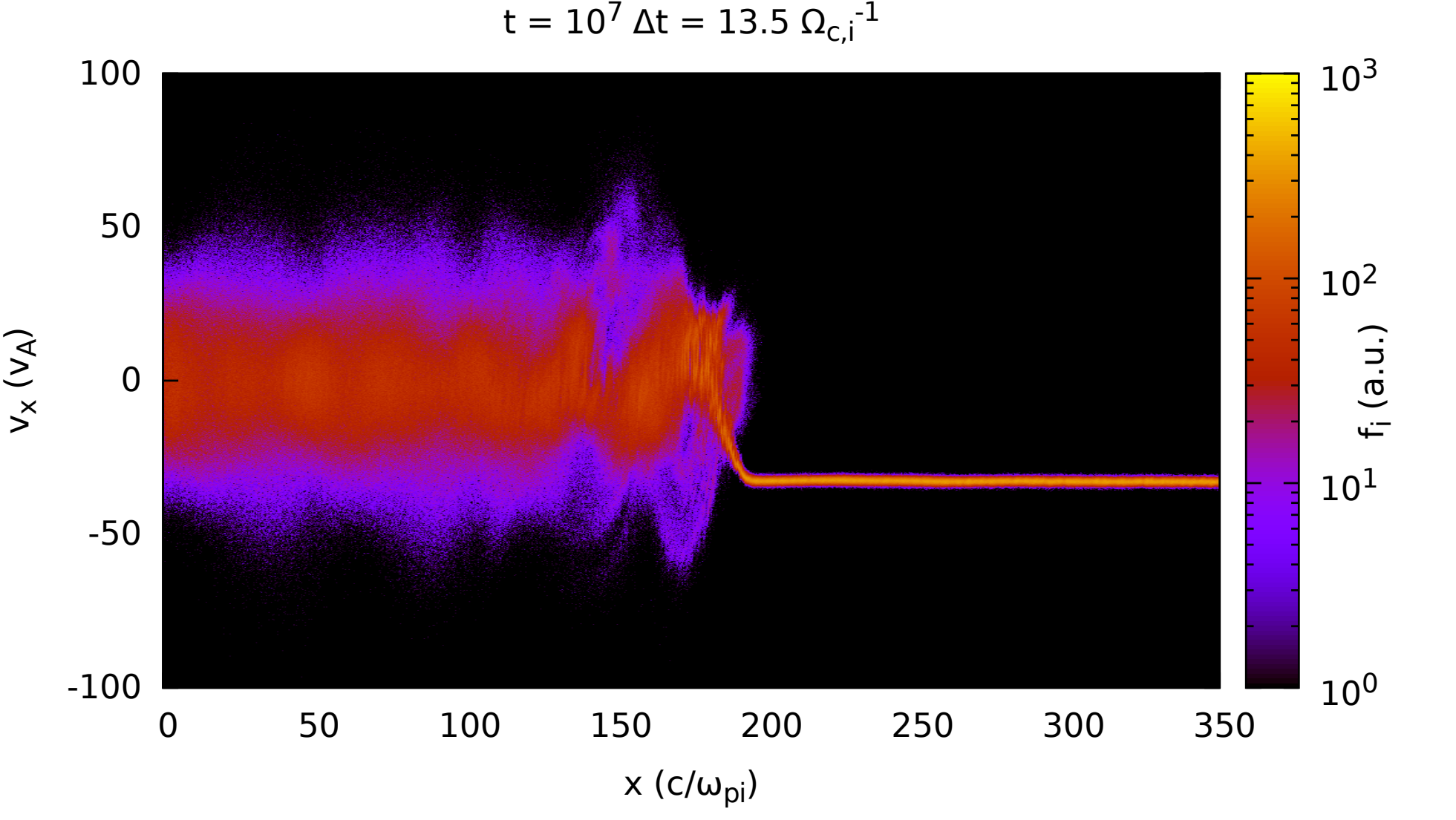

t = 10^7 Δt = 13.5 Ω_c,i^-1
150
100
50
0
-50
-100
-150
v_x (v_th,i)
0
50
100
150
200
250
300
350
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)


t = 10^7 Δt = 13.5 Ω_c,i^-1
100
50
0
-50
-100
v_x (v_A)
0
50
100
150
200
250
300
350
x (c/ω_pi)
5
4
3
2
1
0
f_i (a.u.)


t = 10^7 Δt = 13.5 Ω_c,i^-1
3
2
1
0
-1
-2
-3
v_x (v_u)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)


t = 10^7 Δt = 13.5 Ω_c,i^-1
20
15
10
5
0
-5
-10
-15
-20
v_x (v_th,e)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)


t = 10^7 Δt = 13.5 Ω_c,i^-1
150
100
50
0
-50
-100
-150
v_x (v_th,i)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)


t = 10^7 Δt = 13.5 Ω_c,i^-1
100
50
0
-50
-100
v_x (v_A)
0
50
100
150
200
250
300
350
x (c/ω_pi)
10^3
10^2
10^1
10^0
f_i (a.u.)