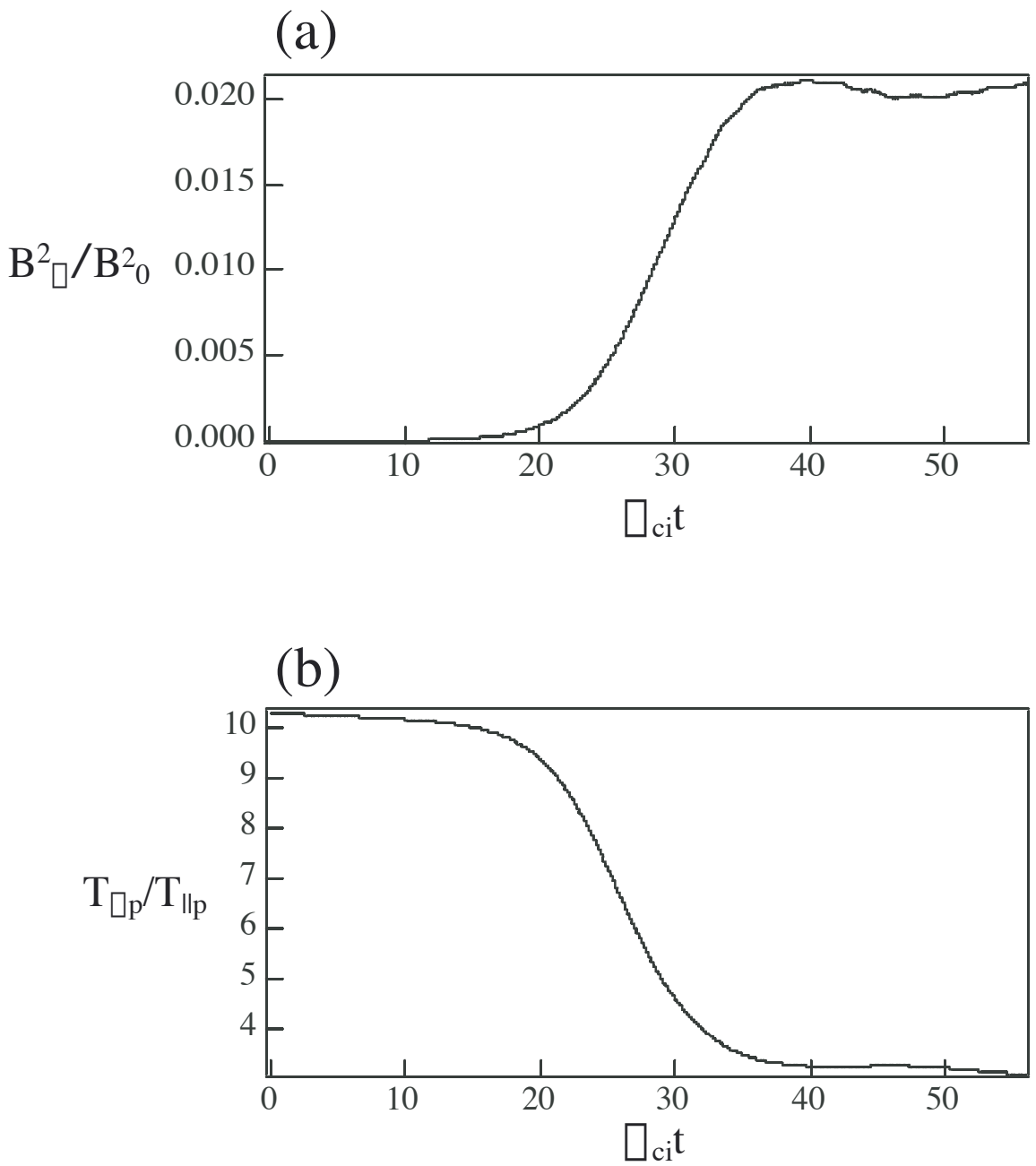
(a)
0.020
0.015
0.010
0.005
0.000
B²□/B²0
0
10
20
30
40
50
□ci t
(b)
10
9
8
7
6
5
4
T□p/T||p
0
10
20
30
40
50
□ci t

Fig.1

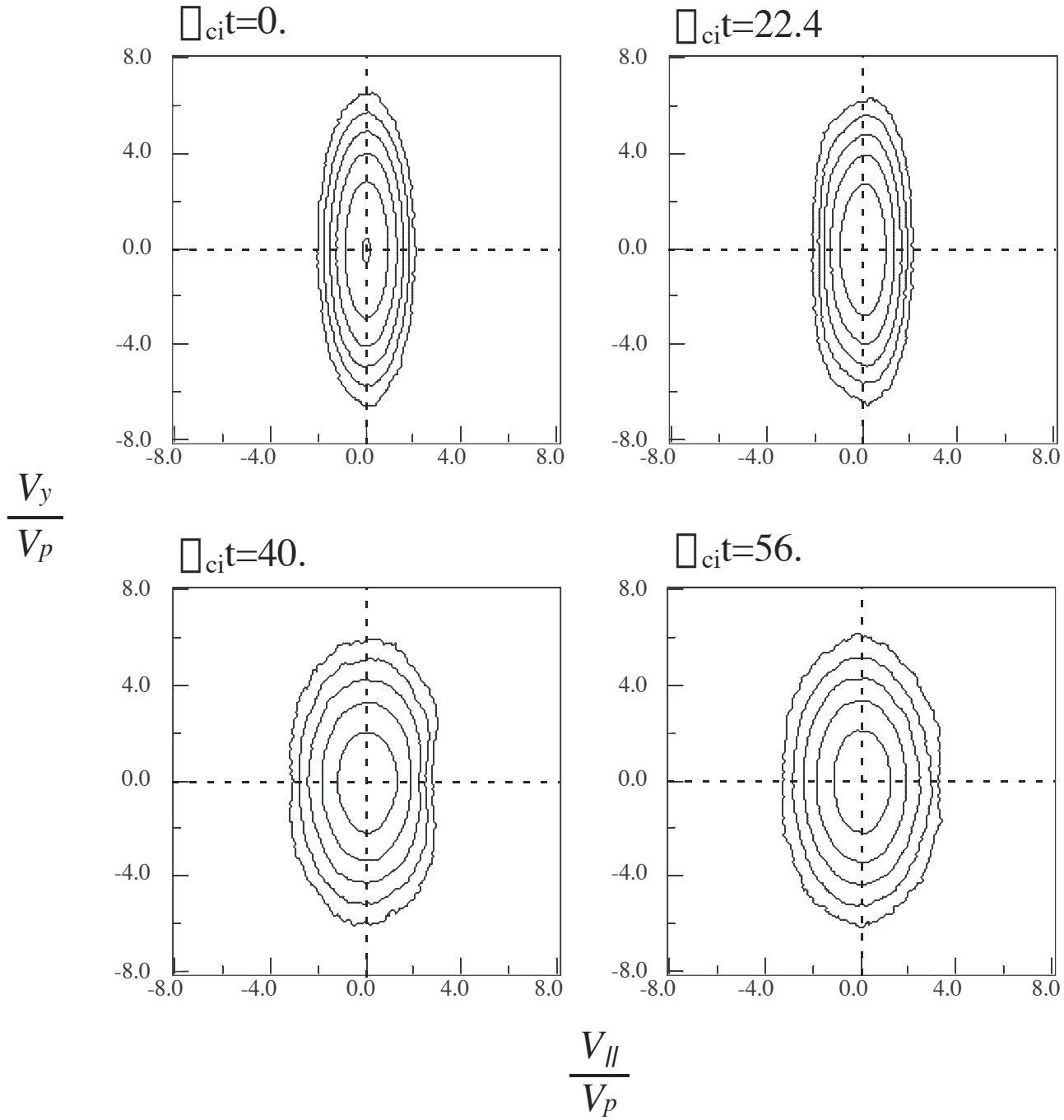
ωcit=0.
ωcit=22.4
ωcit=40.
ωcit=56.
8.0
4.0
0.0
-4.0
-8.0
-8.0
-4.0
0.0
4.0
8.0
Vy / Vp
V// / Vp

Fig.2

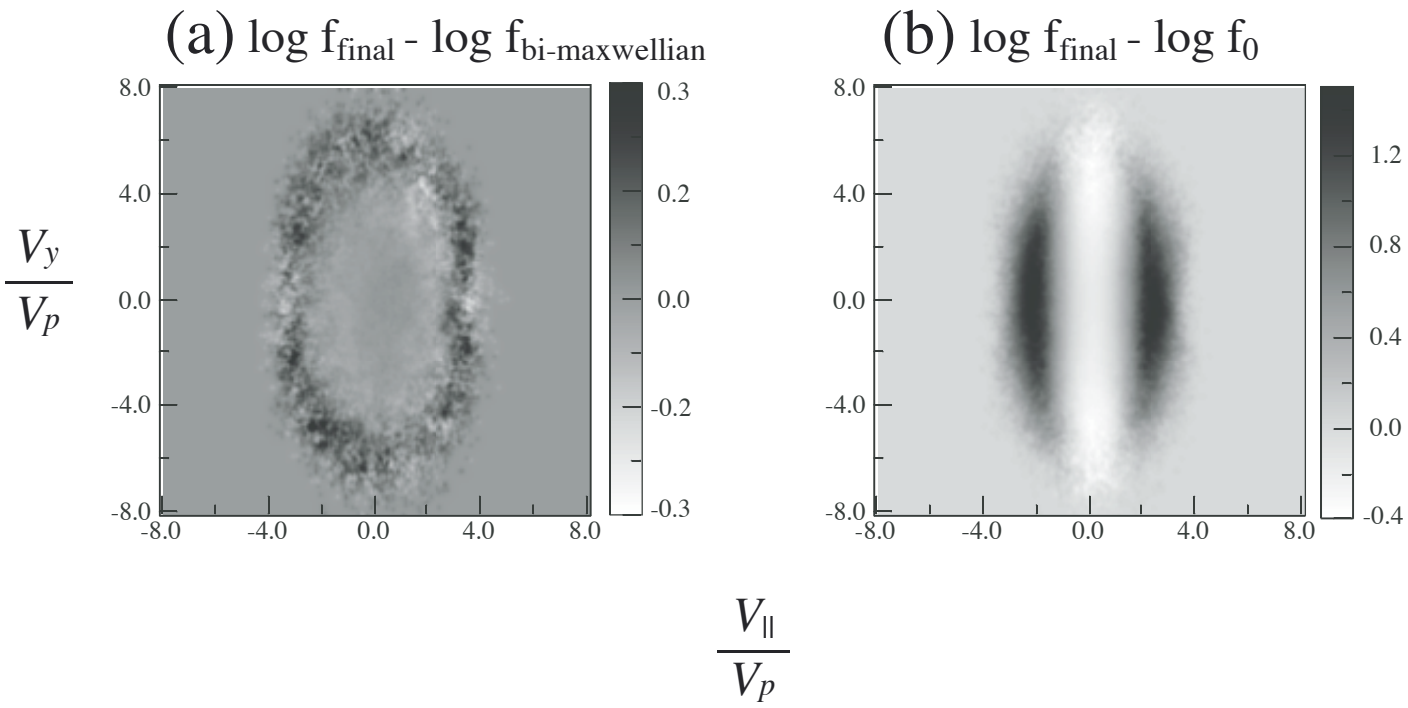
(a) log f_final - log f_bi-maxwellian
(b) log f_final - log f_0
8.0
4.0
0.0
-4.0
-8.0
-8.0
-4.0
0.0
4.0
8.0
0.3
0.2
0.0
-0.2
-0.3
1.2
0.8
0.4
0.0
-0.4
V_y / V_p
V_|| / V_p

Fig.3

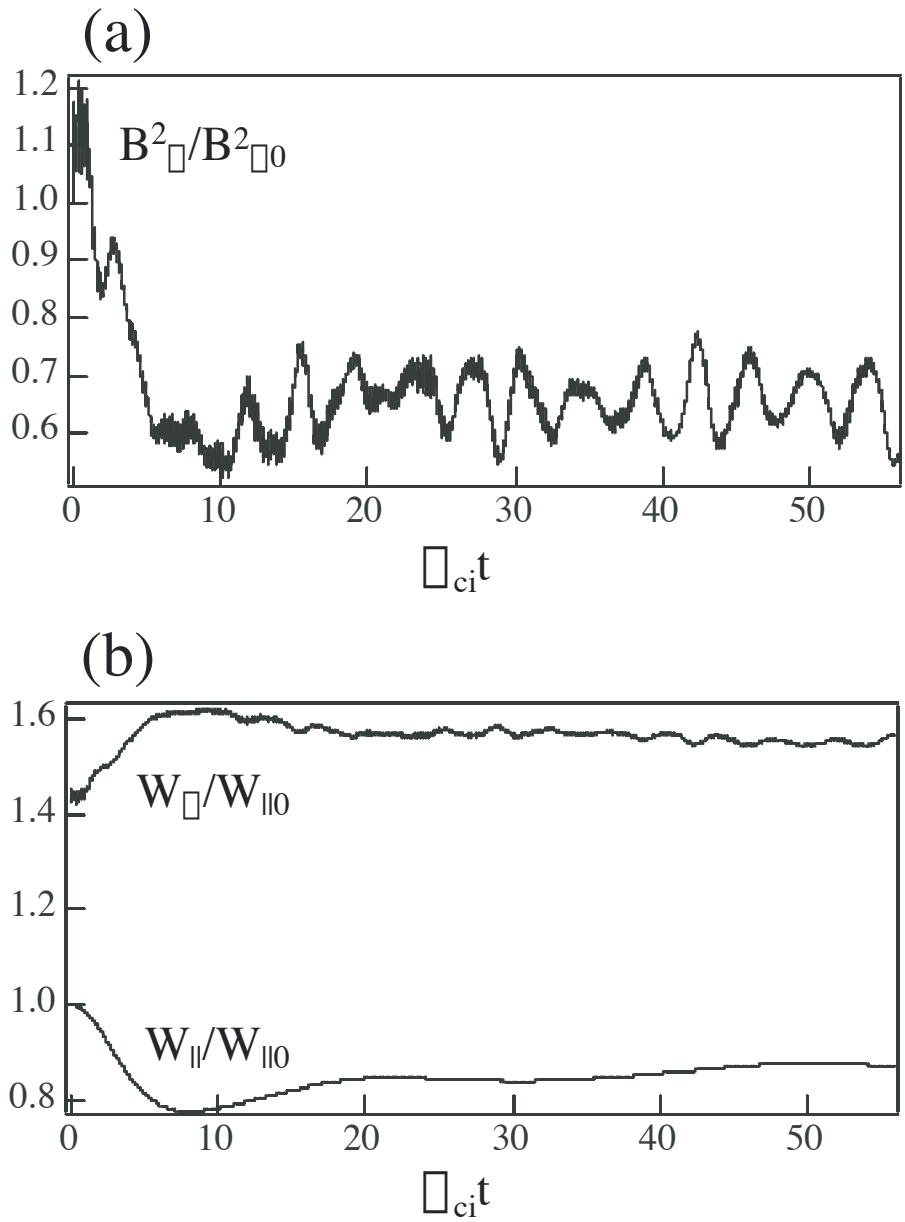
(a)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
B²□/B²□0
0
10
20
30
40
50
□ci t
(b)
1.6
1.4
1.2
1.0
0.8
W□/W||0
W||/W||0
0
10
20
30
40
50
□ci t

Fig. 4

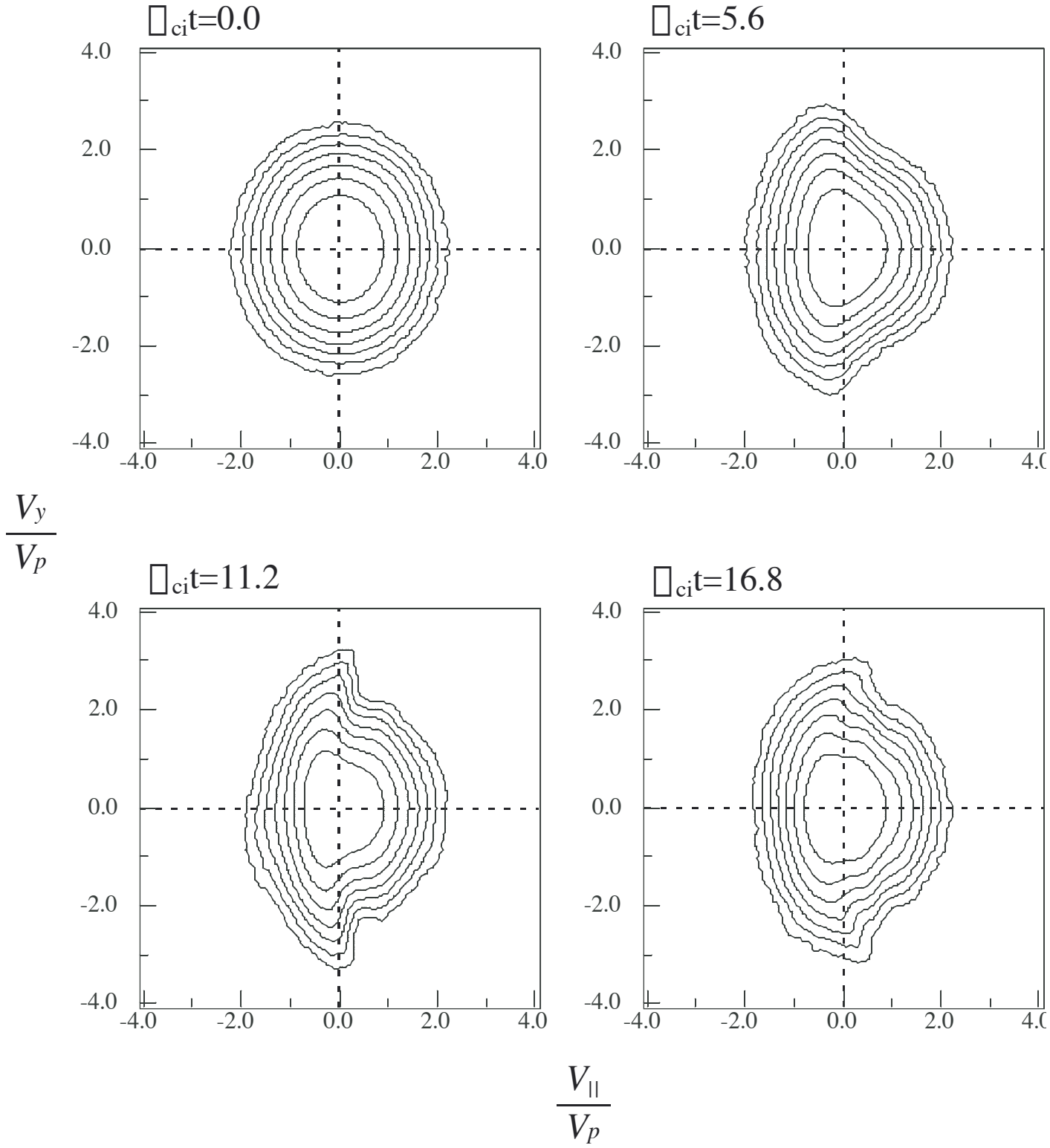
ωcit=0.0
ωcit=5.6
ωcit=11.2
ωcit=16.8
4.0
2.0
0.0
-2.0
-4.0
-4.0
-2.0
0.0
2.0
4.0
Vy / Vp
V|| / Vp

Fig.5

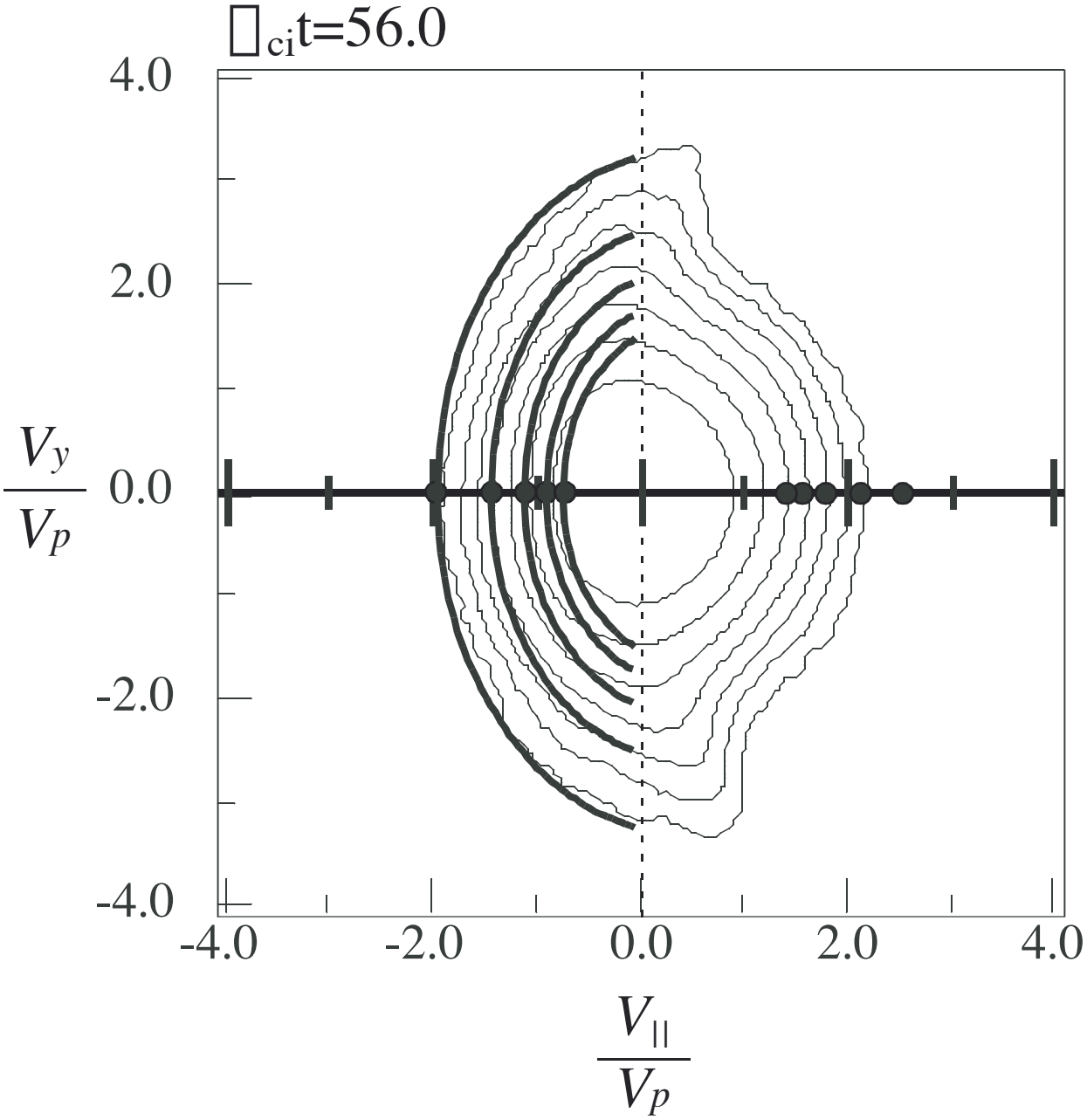

Fig.6

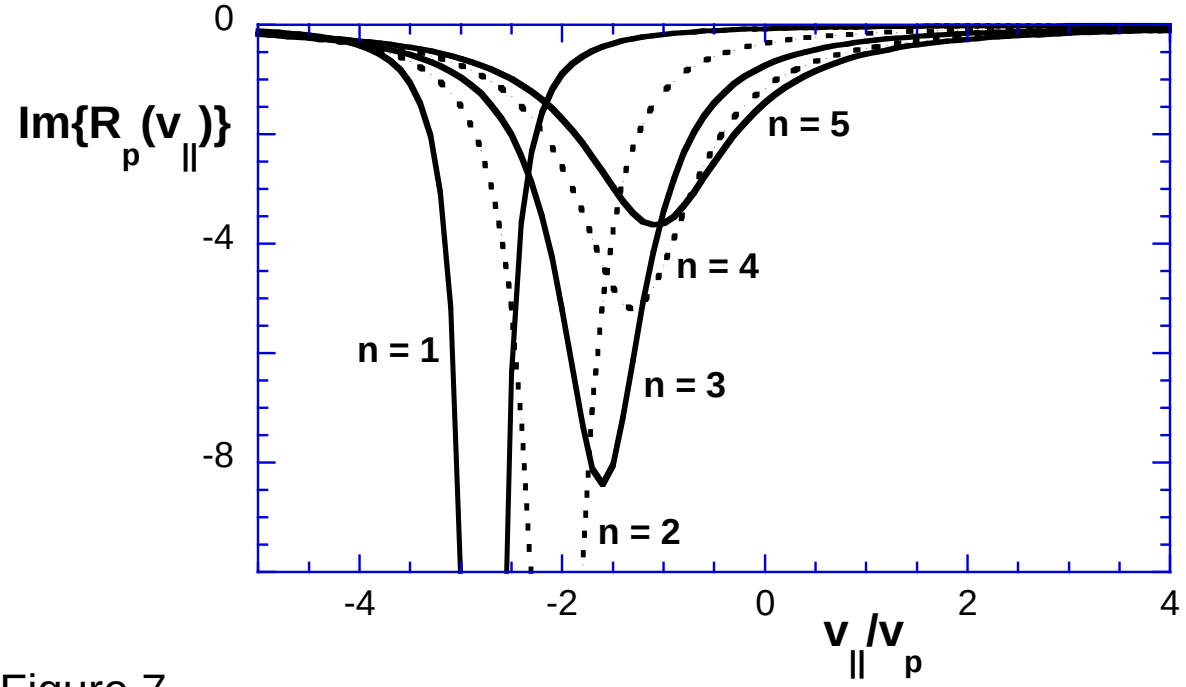

Figure 7

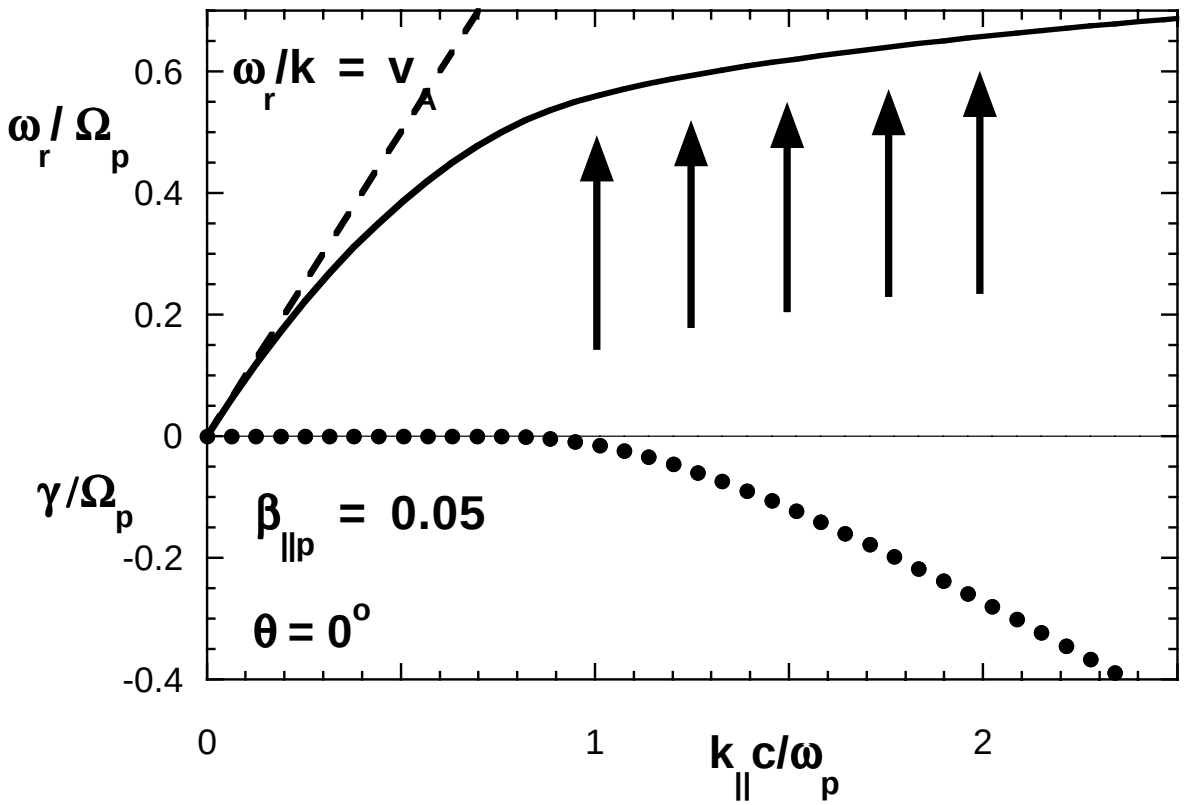
$\omega_r/k = v_A$
ω_r/Ω_p
γ/Ω_p
$\beta_{\|p} = 0.05$
$\theta = 0^o$
0.6
0.4
0.2
0
-0.2
-0.4
0
1
2
$k_\| c/\omega_p$

Figure A.1