```
box u21$

graflib:gcs02042kcs02042

15:33:2211/09/82 c
```

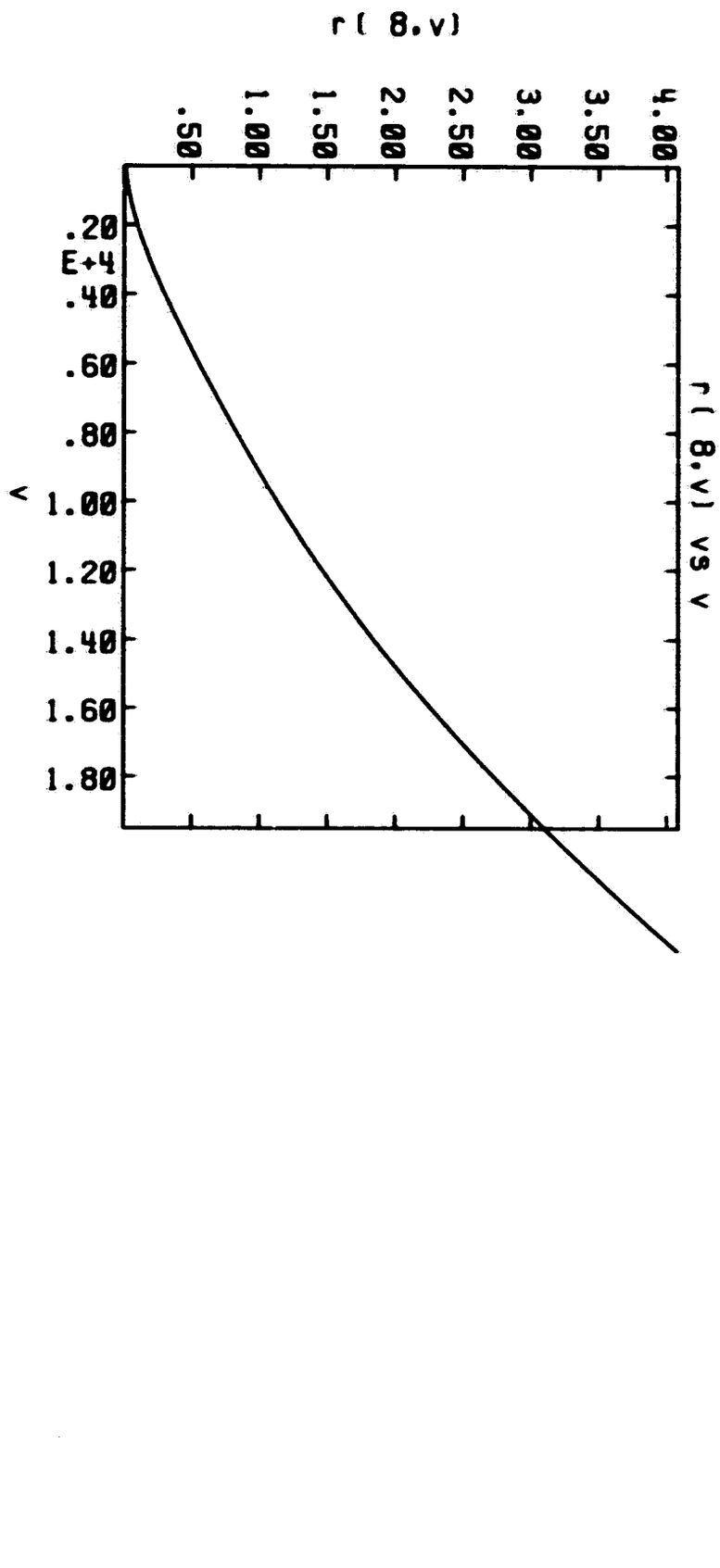
box u21$

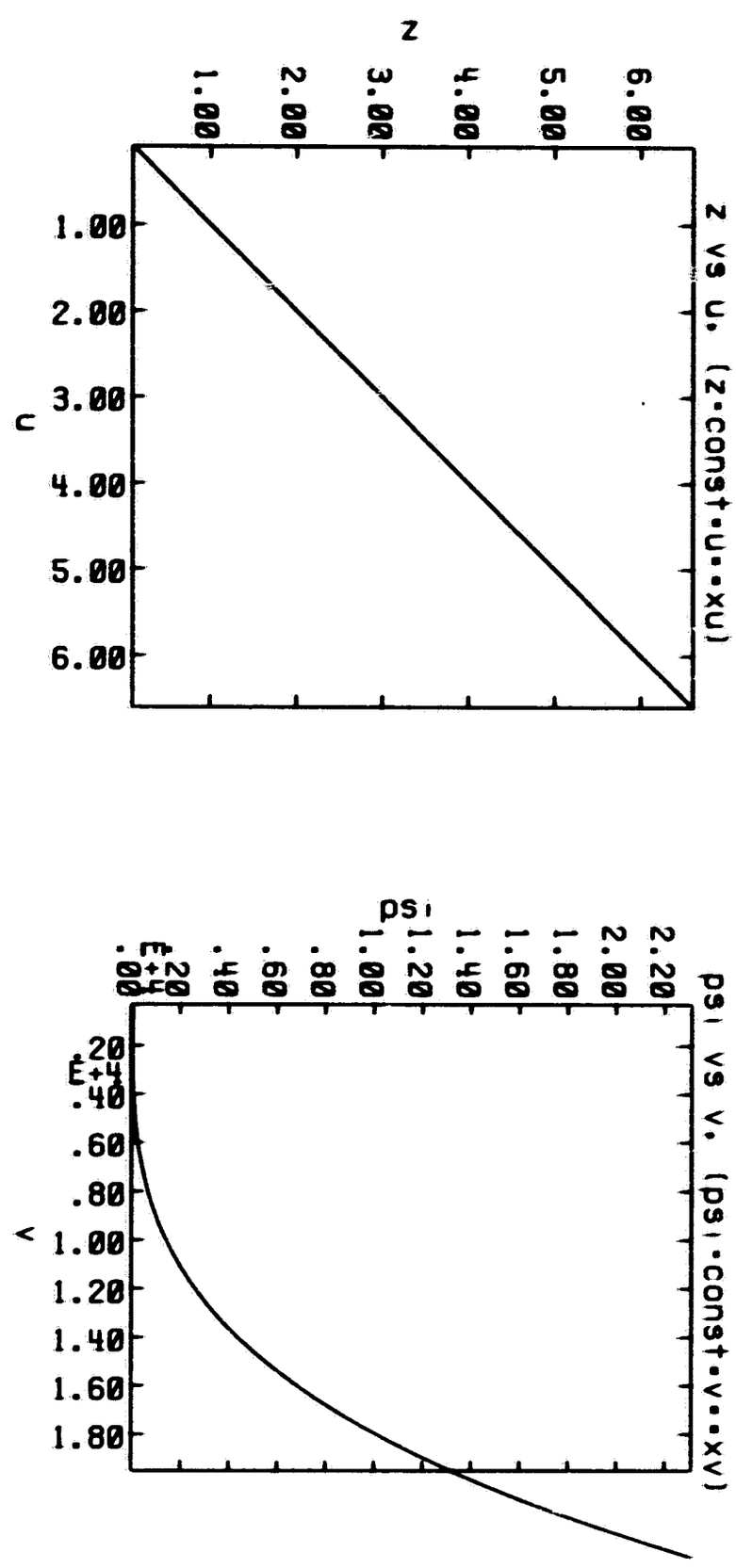
graflib:gcs02042kcs02042

15:33:2211/09/82 c

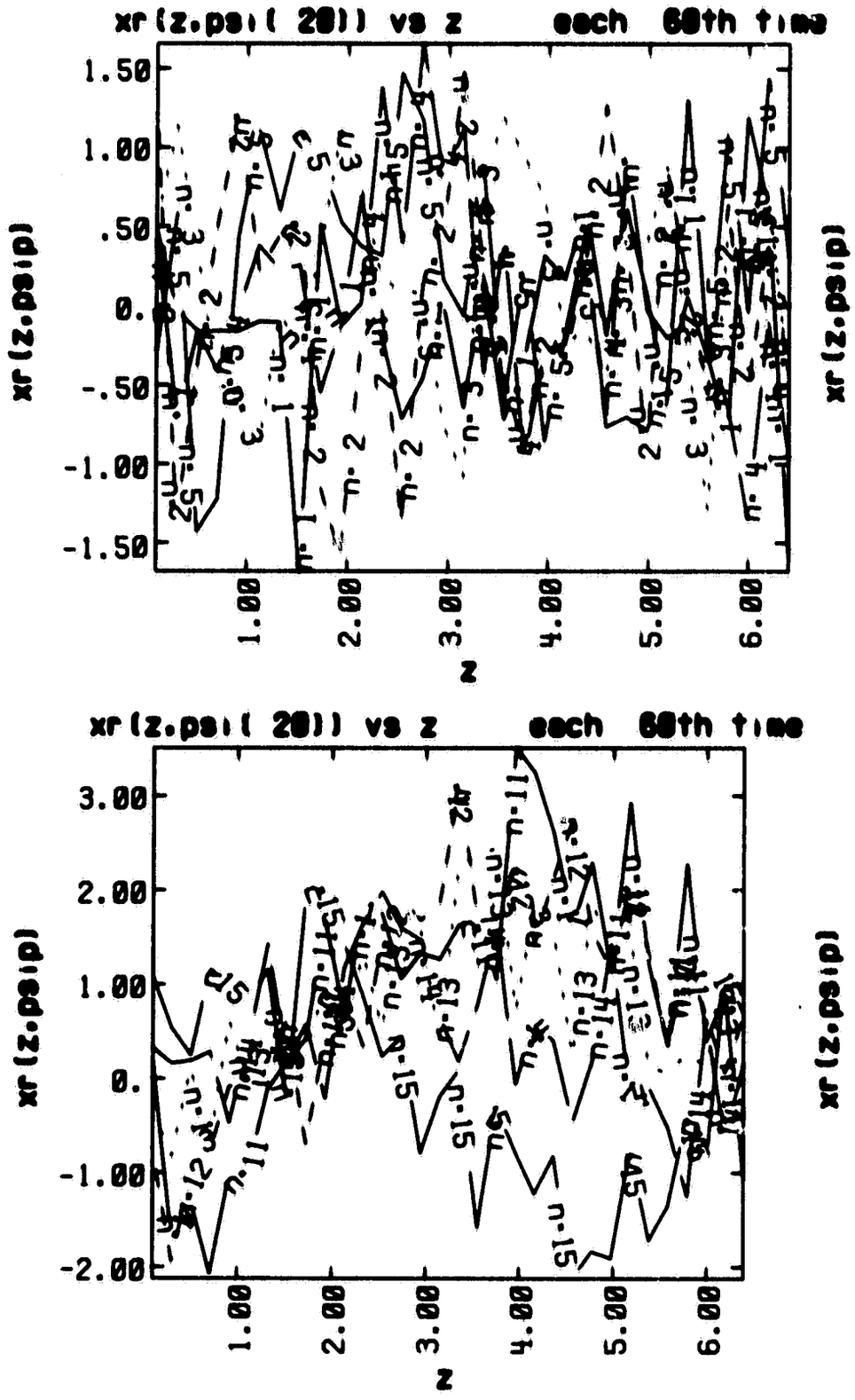
this problem run by xflc12

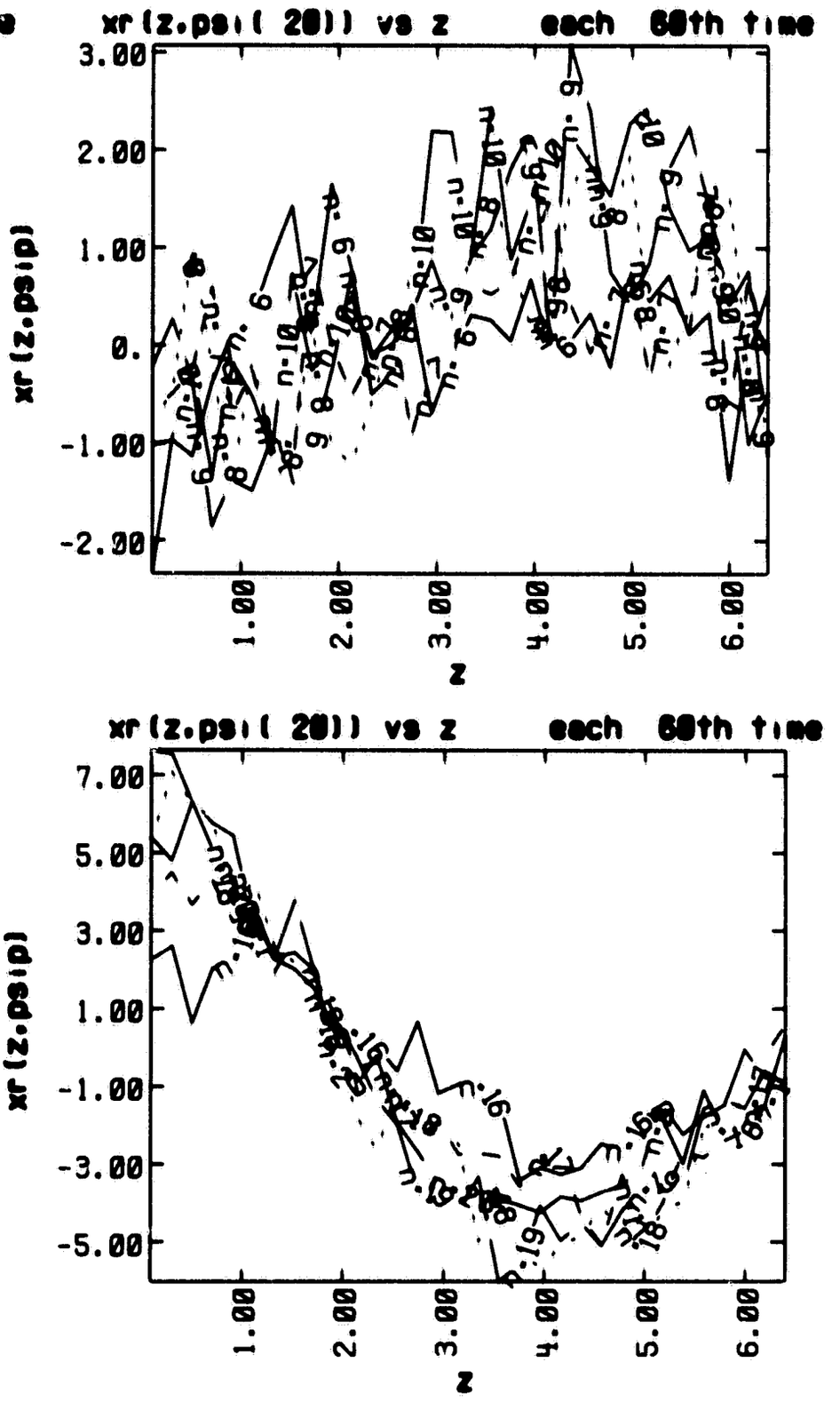
```
dt=    3.125000e-11
ix=      34
jx=      40
total time steps =    2400
no. of iterations =       4
bias=   0.01000
ratrod=   -1.600000e+00
drift freq. (omegst) =  7.46038832e+08
rotation freq. (omegr) = -1.19366213e+09
e x b freq. (omegexb) = -4.47623299e+08
flr=  1.00000000e+00
sf6=  1.00000000e+00
sf8=  1.00000000e+00
enbar=  0.
kplot=     559
kzs=       1
valfk =  5.00000000e-02
     cpu time =  1.48347854e+14
     i-o time =  2.78494100e+12
     sys time =  1.61534560e+13
   u exponent (xu) =   1.00000000e+00
   v exponent (xv)=  3.32192809e+00
     en0=  1.00000000e+14
     b0=  1.00000000e+04
     mm=     1
```


r(8,v)
.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
.20
E+4
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
v
r(8,v) vs v


z
1.00
2.00
3.00
4.00
5.00
6.00
u
z vs u, (z·const·u··xu)

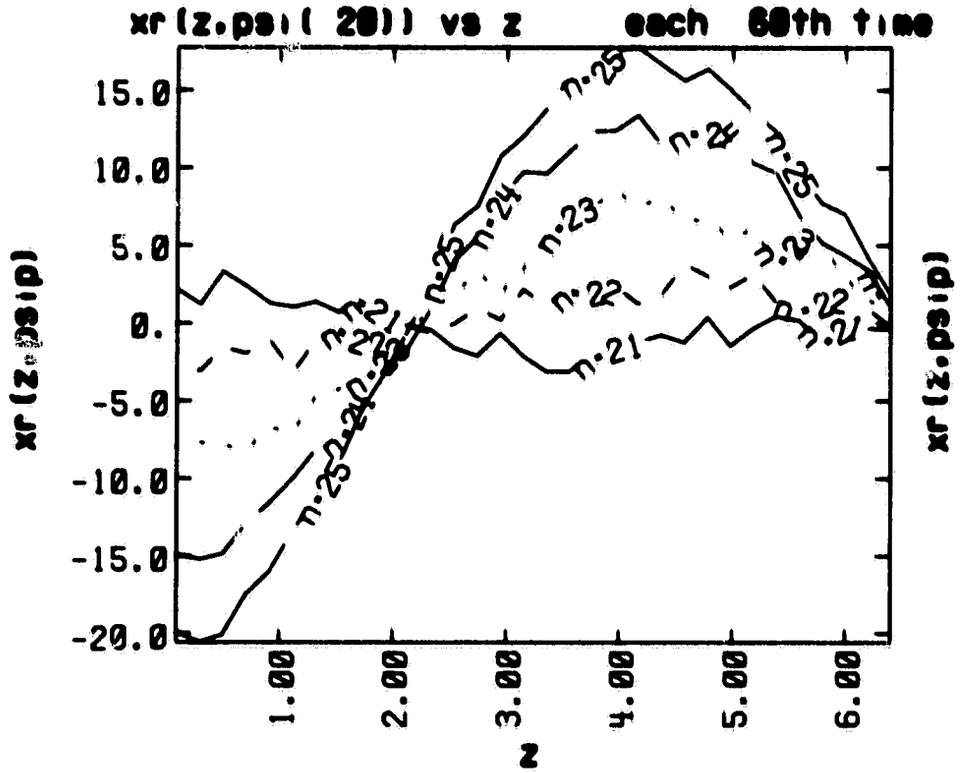
psi
E+5
v
psi vs v, (psi·const·v··xv)

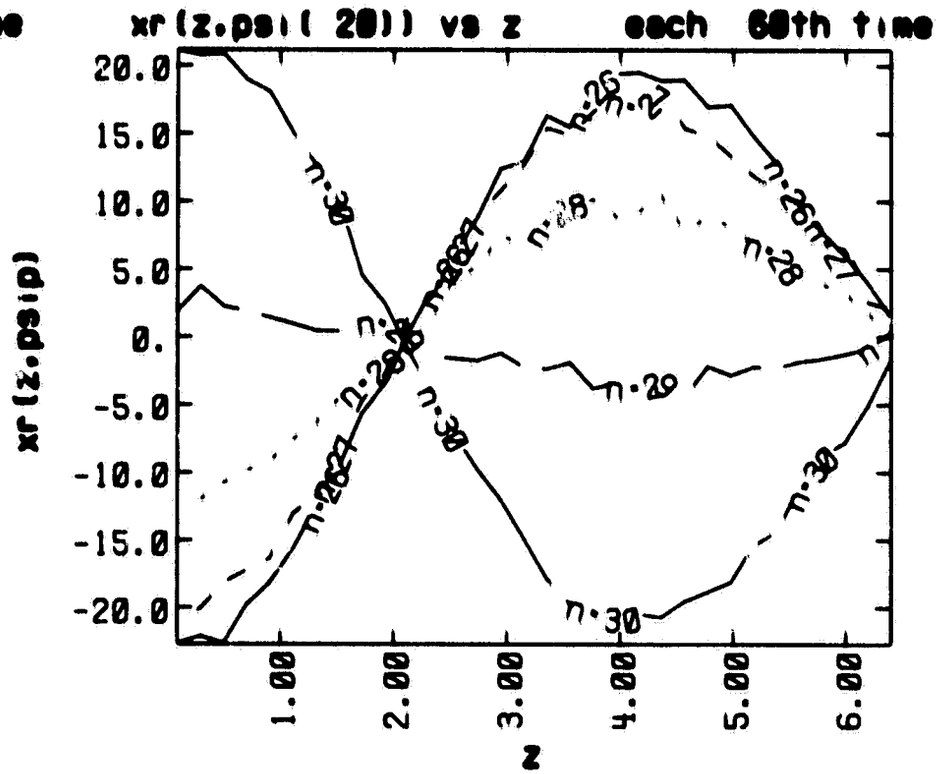

xr(z,psi(20)) vs z each 60th time
xr(z,psi)
z
1.50
1.00
.50
0.
-.50
-1.00
-1.50
1.00
2.00
3.00
4.00
5.00
6.00

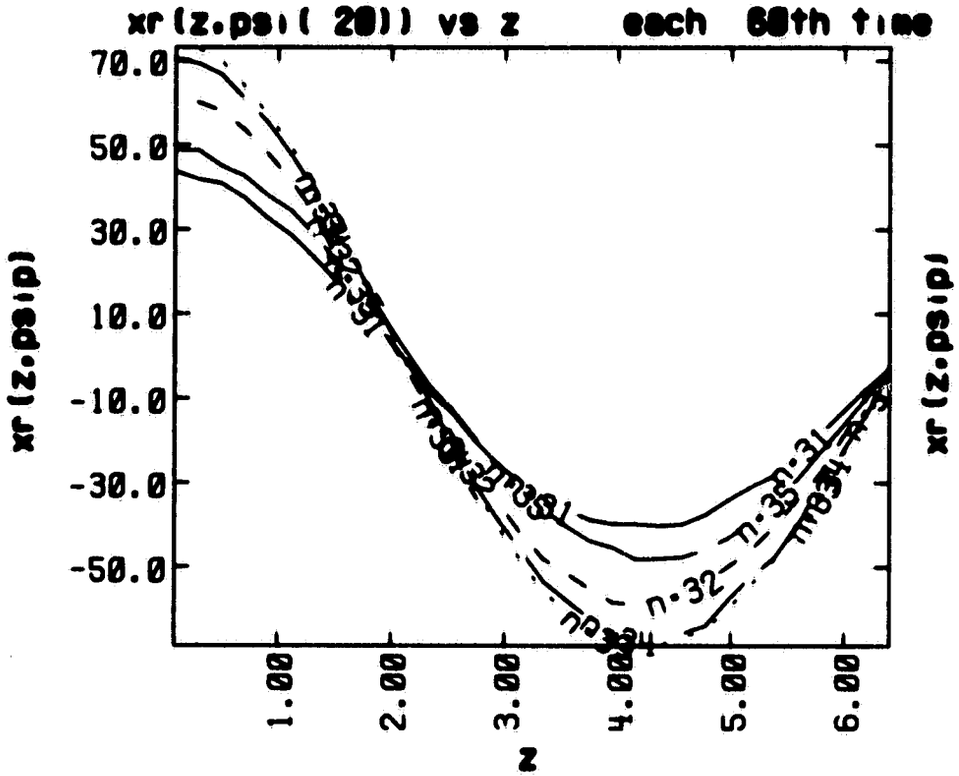

xr(z,psi(20)) vs z each 60th time
xr(z,psi)
z
3.00
2.00
1.00
0.
-1.00
-2.00
1.00
2.00
3.00
4.00
5.00
6.00

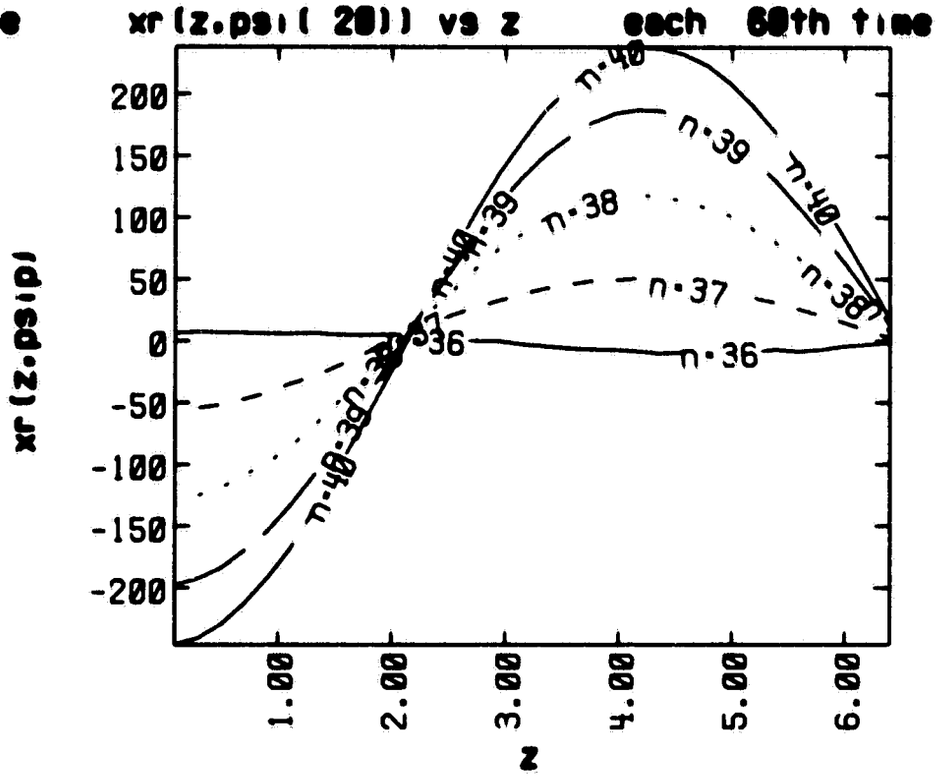
xr(z,psi(20)) vs z each 60th time
xr(z,psi)
z
3.00
2.00
1.00
0.
-1.00
-2.00
1.00
2.00
3.00
4.00
5.00
6.00

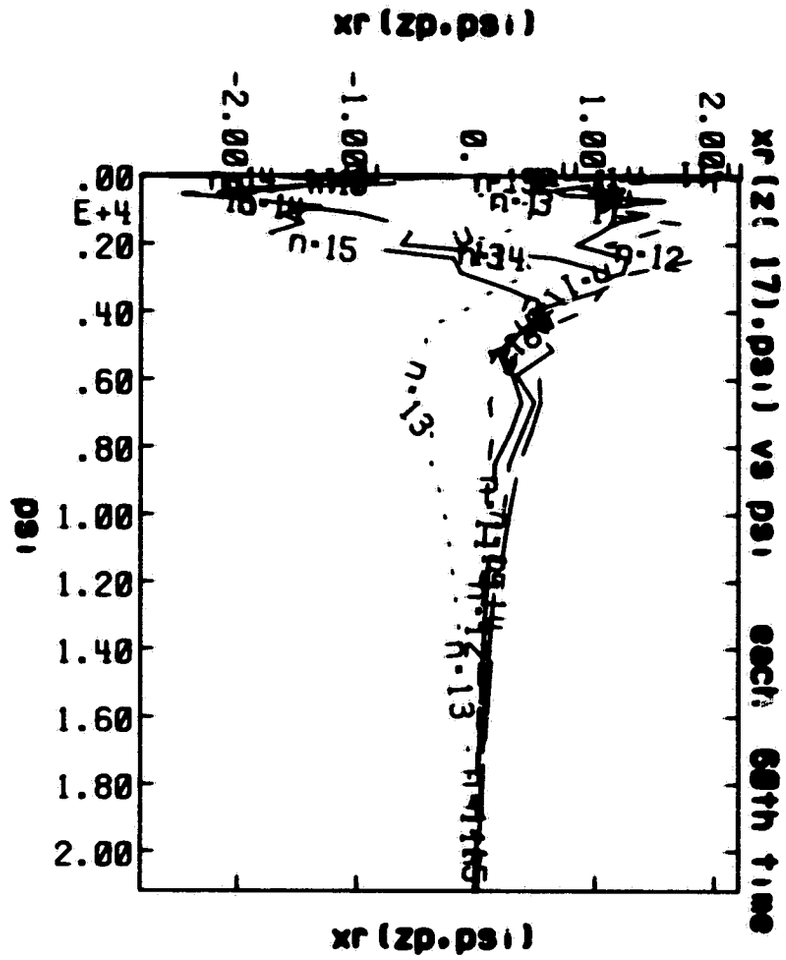
xr(z,psi(20)) vs z each 60th time
xr(z,psi)
z
7.00
5.00
3.00
1.00
-1.00
-3.00
-5.00
1.00
2.00
3.00
4.00
5.00
6.00

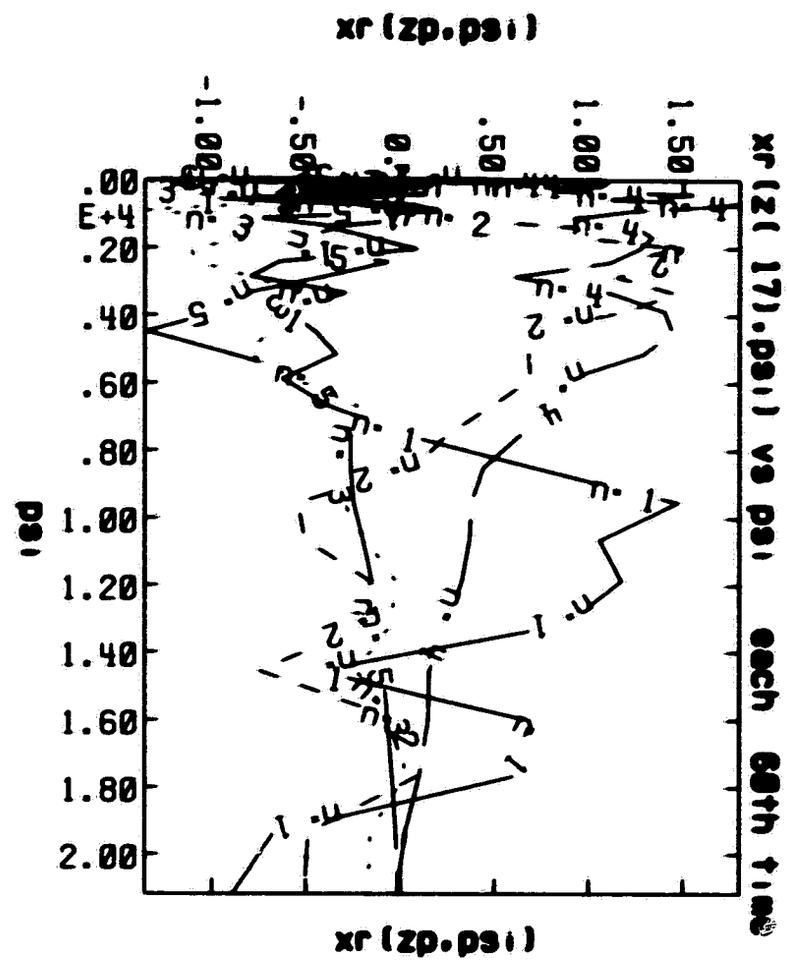

xr(z,psi(20)) vs z each 60th time
xr(z,psip)
z
n·25
n·24
n·23
n·22
n·21

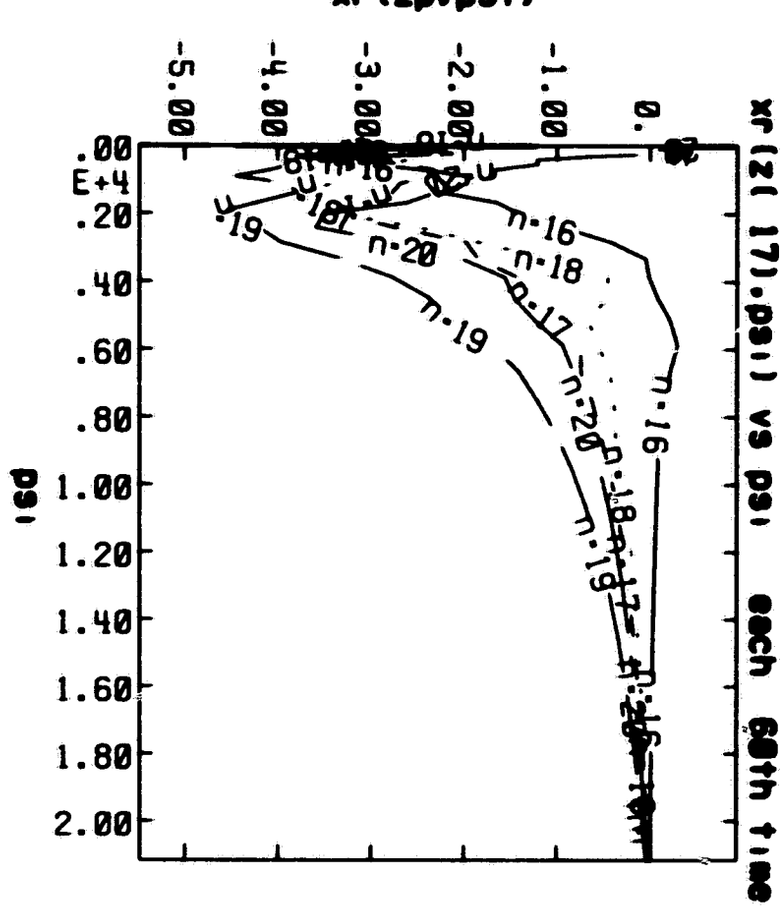

xr(z,psi(20)) vs z each 60th time
xr(z,psip)
z
n·30
n·29
n·28
n·27
n·26
n·25
n·20

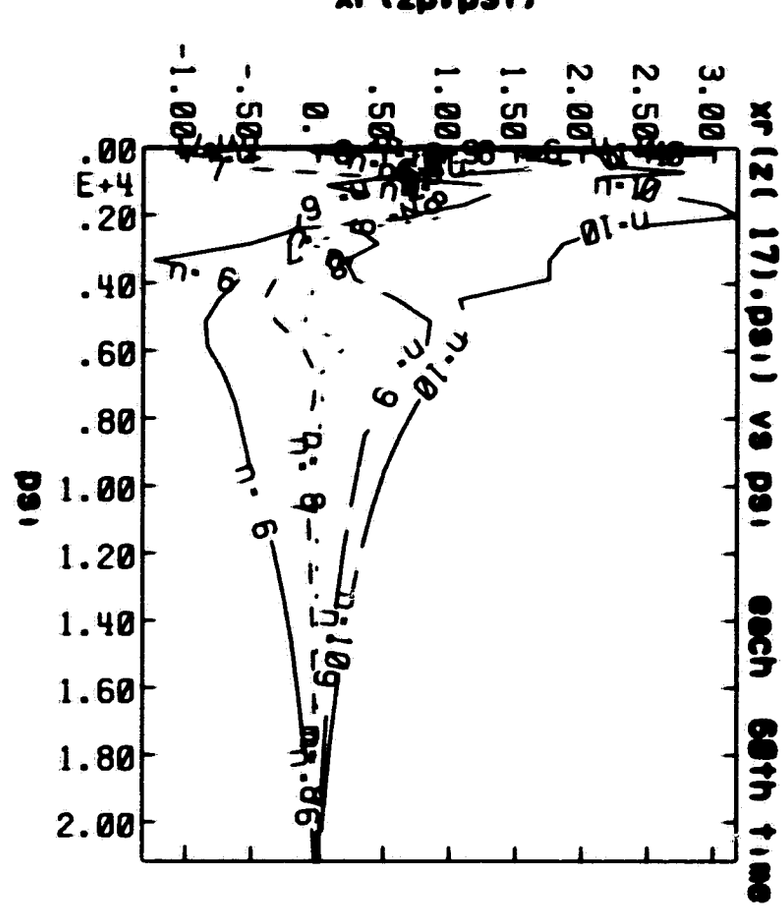

xr(z,psi(20)) vs z each 60th time
xr(z,psip)
z
n·32
n·31

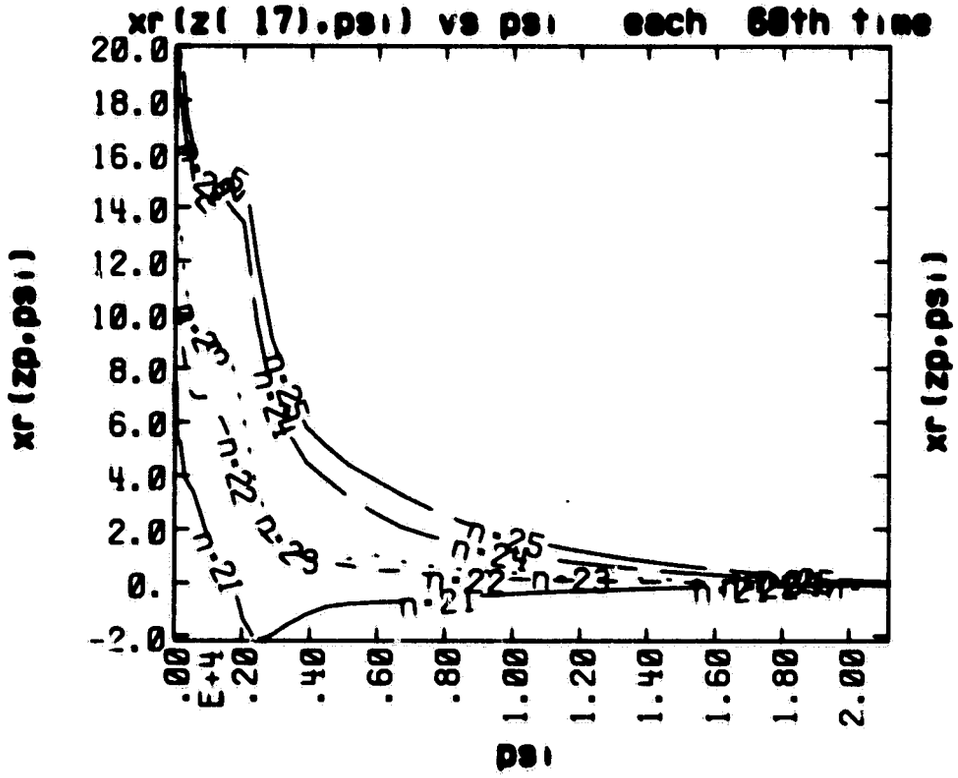

xr(z,psi(20)) vs z each 60th time
xr(z,psip)
z
n·40
n·39
n·38
n·37
n·36

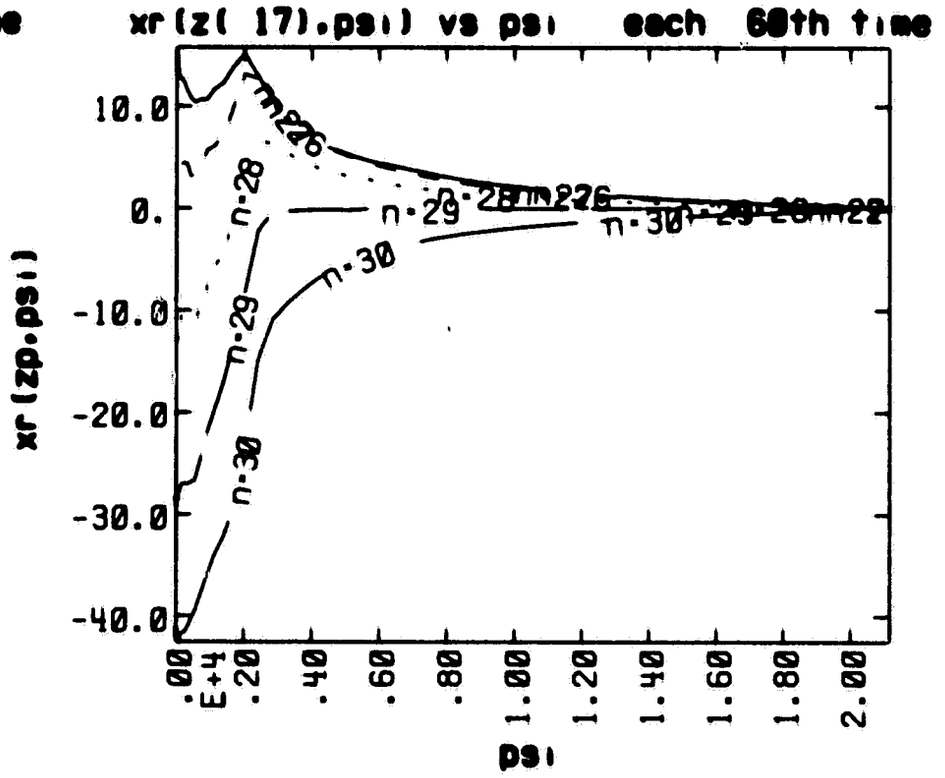

xr (zp.psi)
psi
xr (zp.psi)
xr (zl (17).psi) vs psi each 60th time

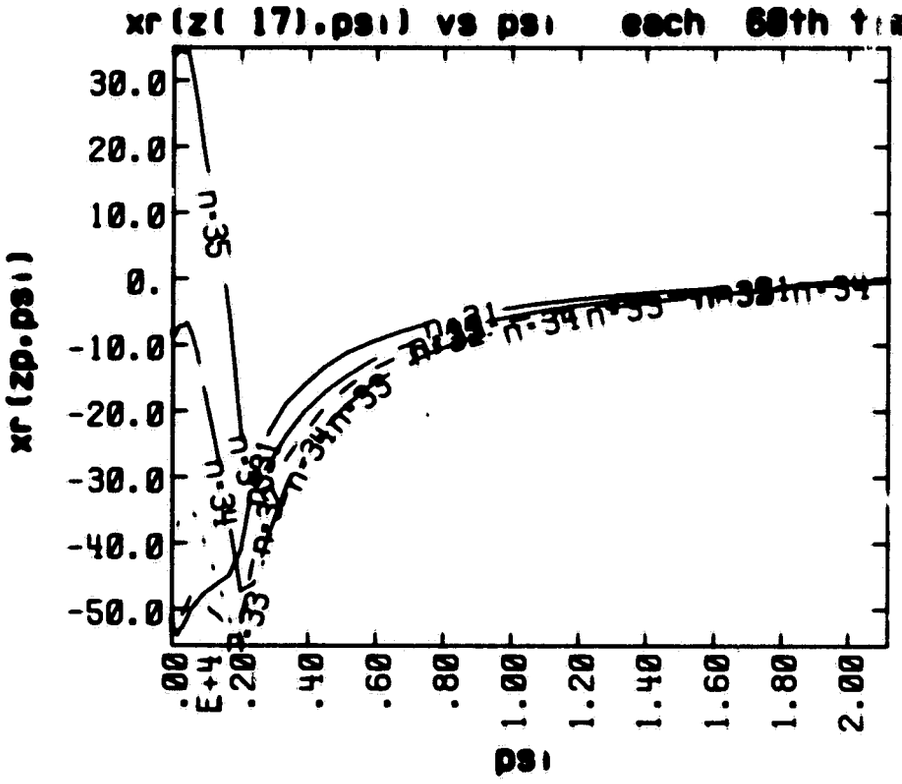

xr (zp.psi)
psi
xr (zp.psi)
xr (zl (17).psi) vs psi each 60th time

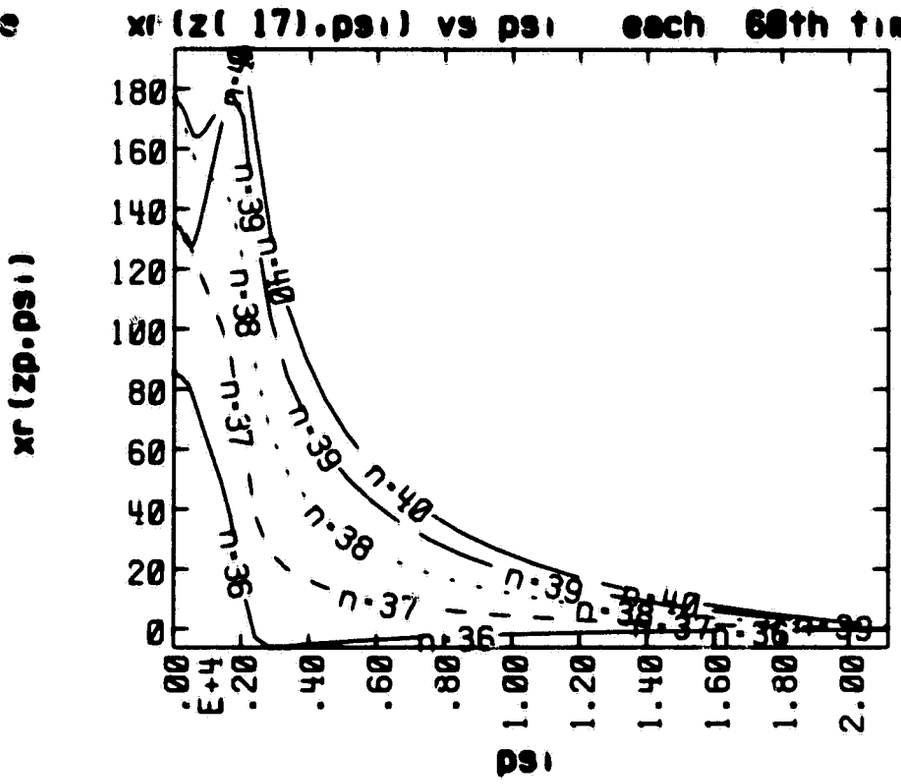

xr (zp.psi)
psi
xr (zp.psi)
xr (zl (17).psi) vs psi each 60th time

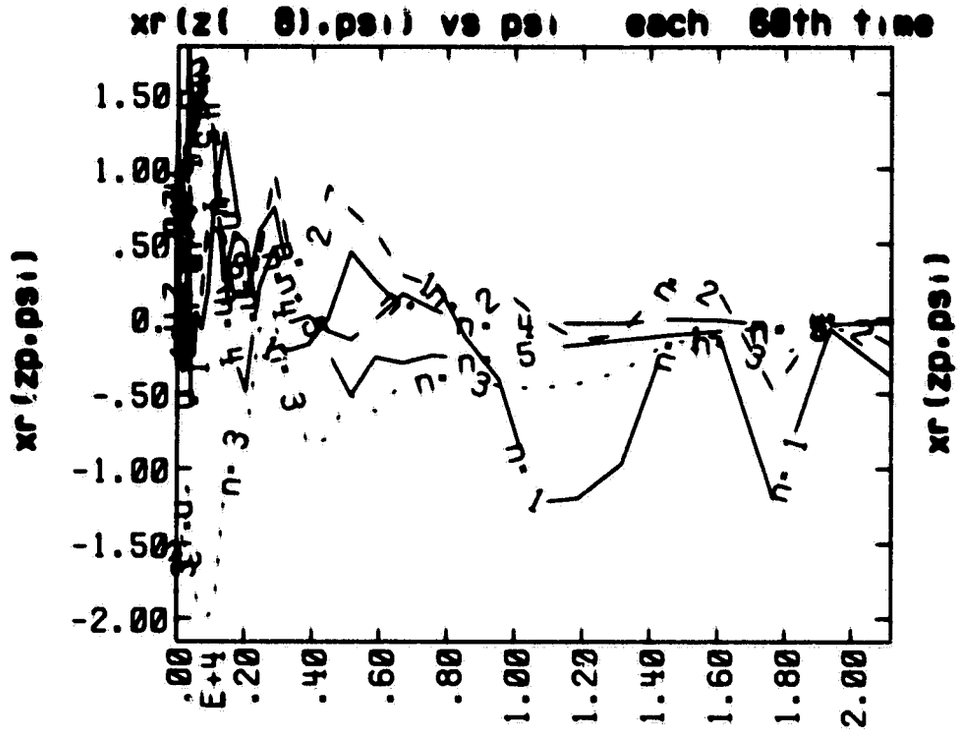

xr (zp.psi)
psi
xr (zp.psi)
xr (zl (17).psi) vs psi each 60th time

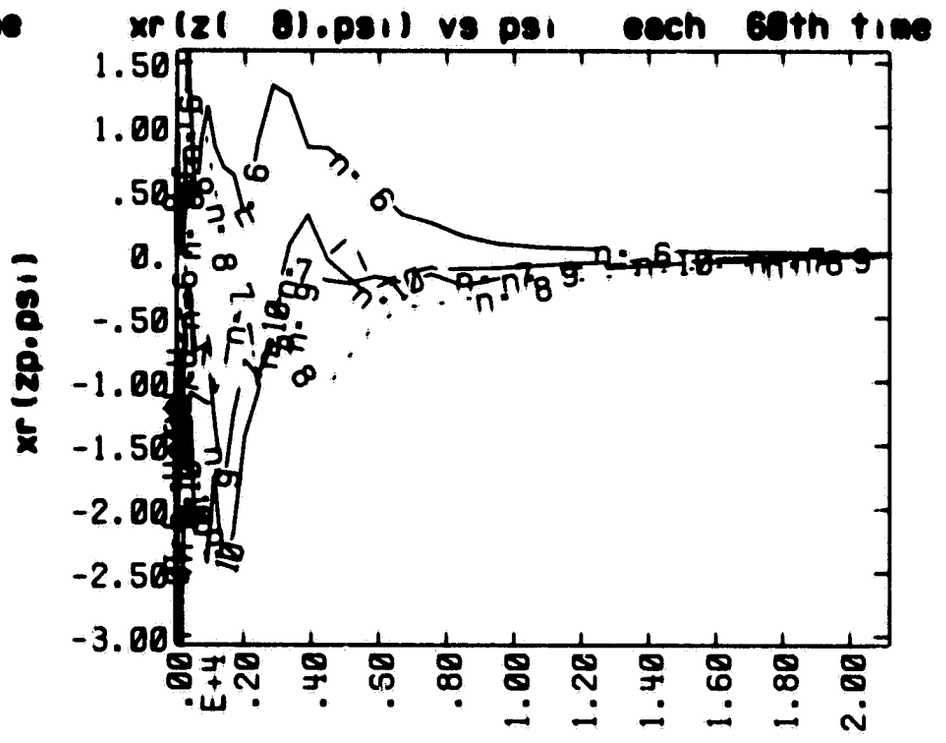

xr(z(17).psi) vs psi each 60th time
xr(zp.psi)
psi
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.
-2.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n=21
n=22
n=23
n=24
n=25

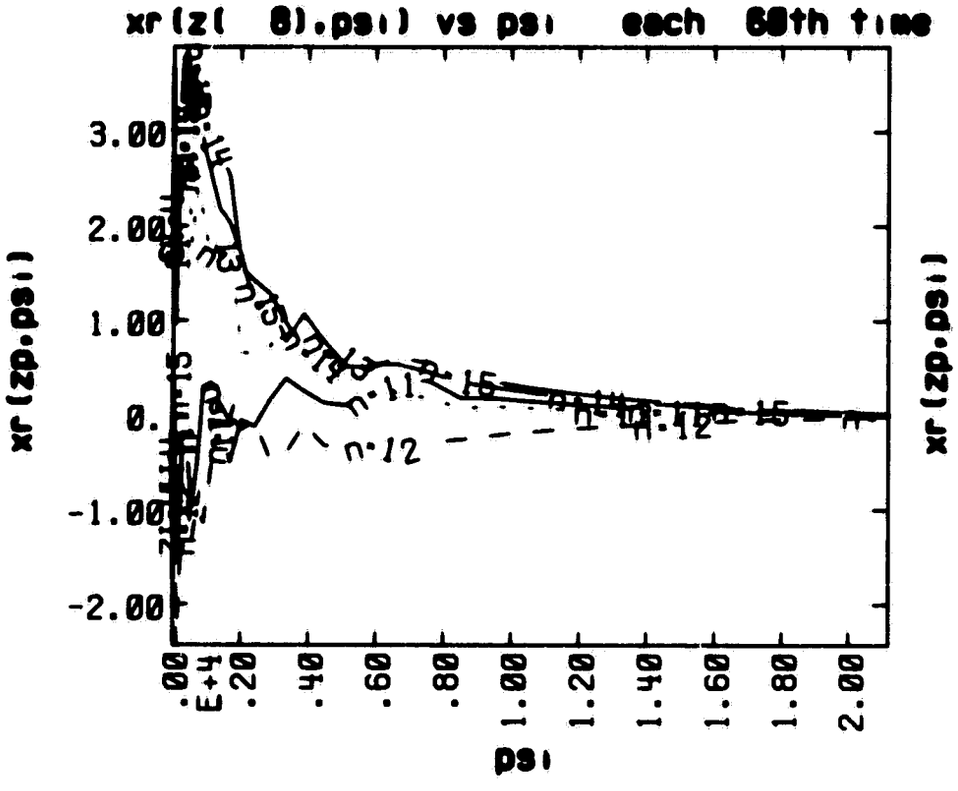

xr(z(17).psi) vs psi each 60th time
xr(zp.psi)
psi
10.0
0.
-10.0
-20.0
-30.0
-40.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n=26
n=28
n=29
n=30

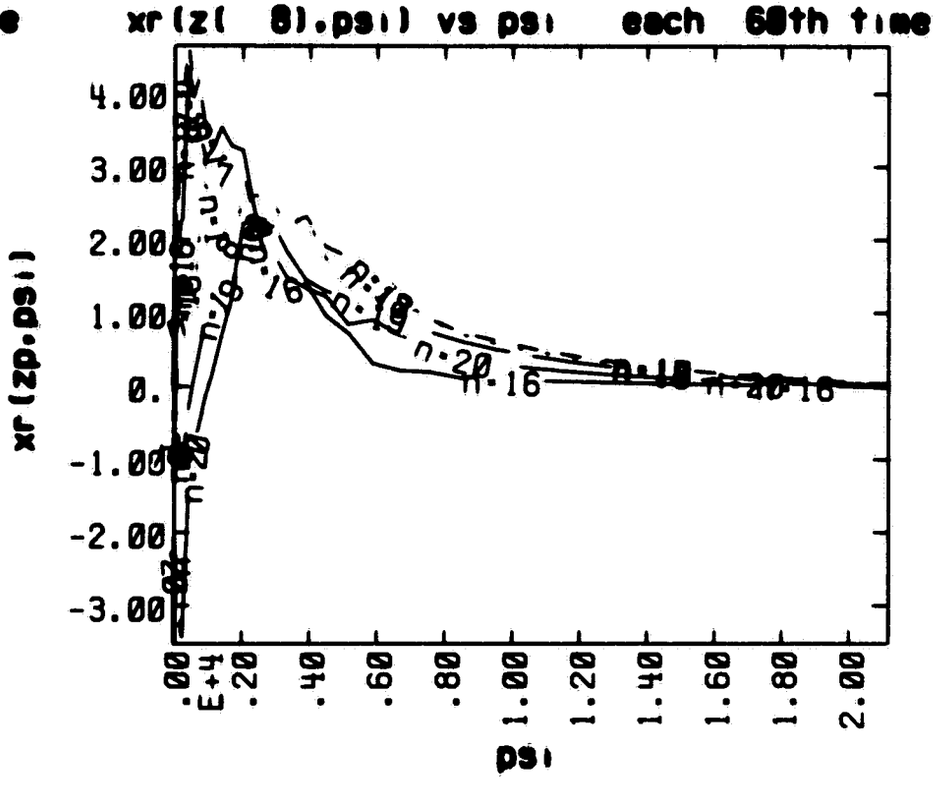

xr(z(17).psi) vs psi each 60th time
xr(zp.psi)
psi
30.0
20.0
10.0
0.
-10.0
-20.0
-30.0
-40.0
-50.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n=33
n=34
n=35

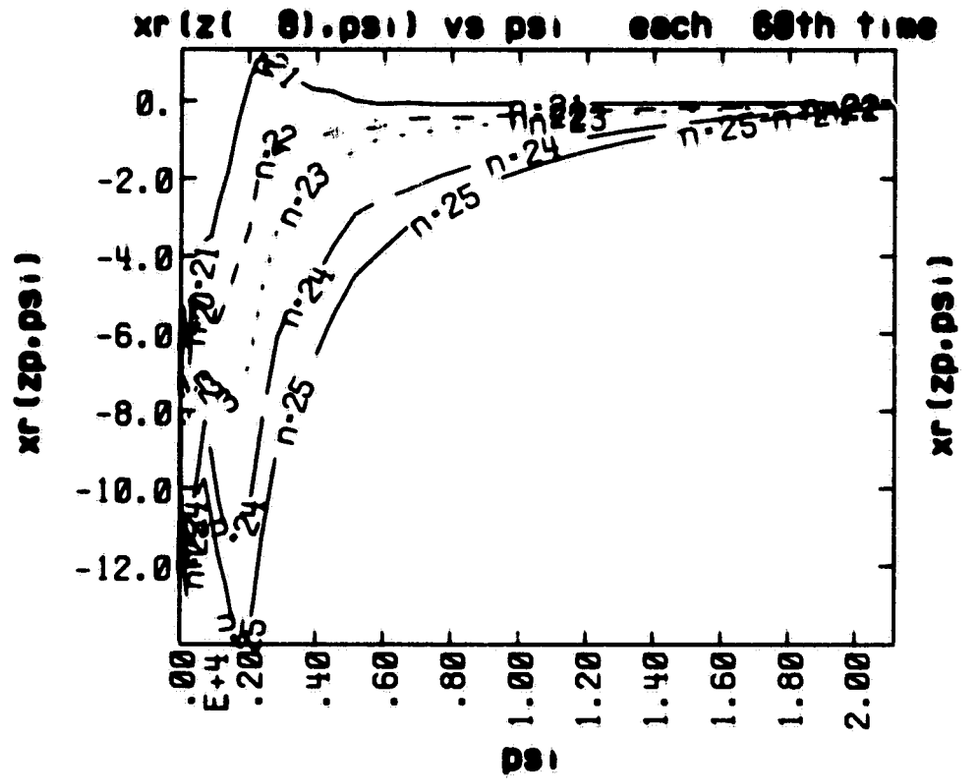

xr(z(17).psi) vs psi each 60th time
xr(zp.psi)
psi
180
160
140
120
100
80
60
40
20
0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n=36
n=37
n=38
n=39
n=40

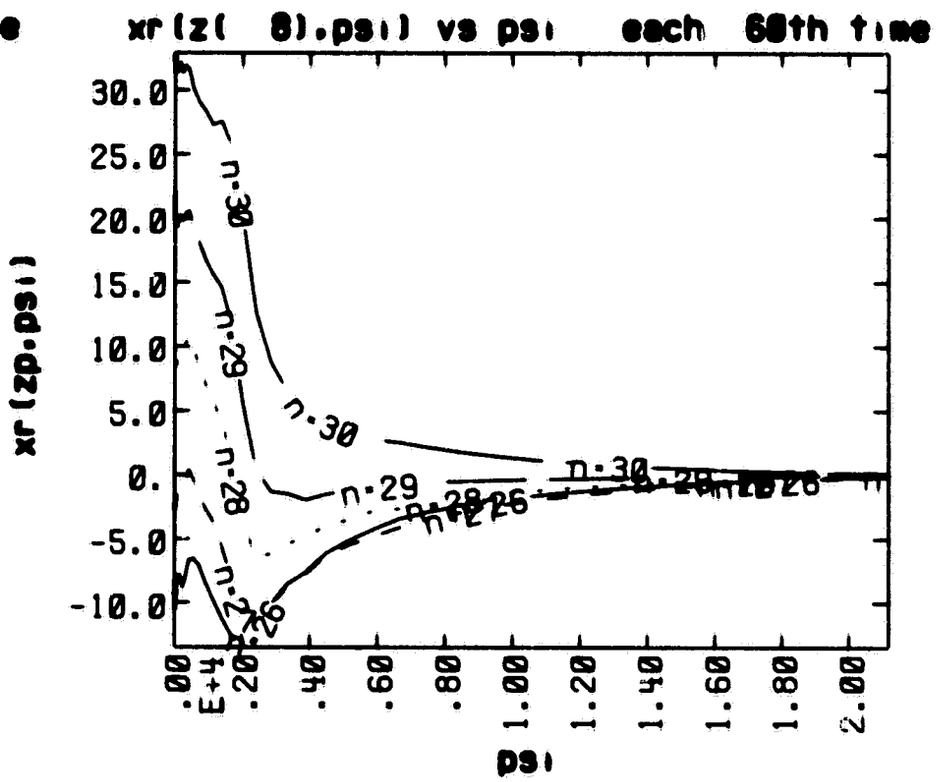

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
1.50
1.00
.50
0
-.50
-1.00
-1.50
-2.00
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00

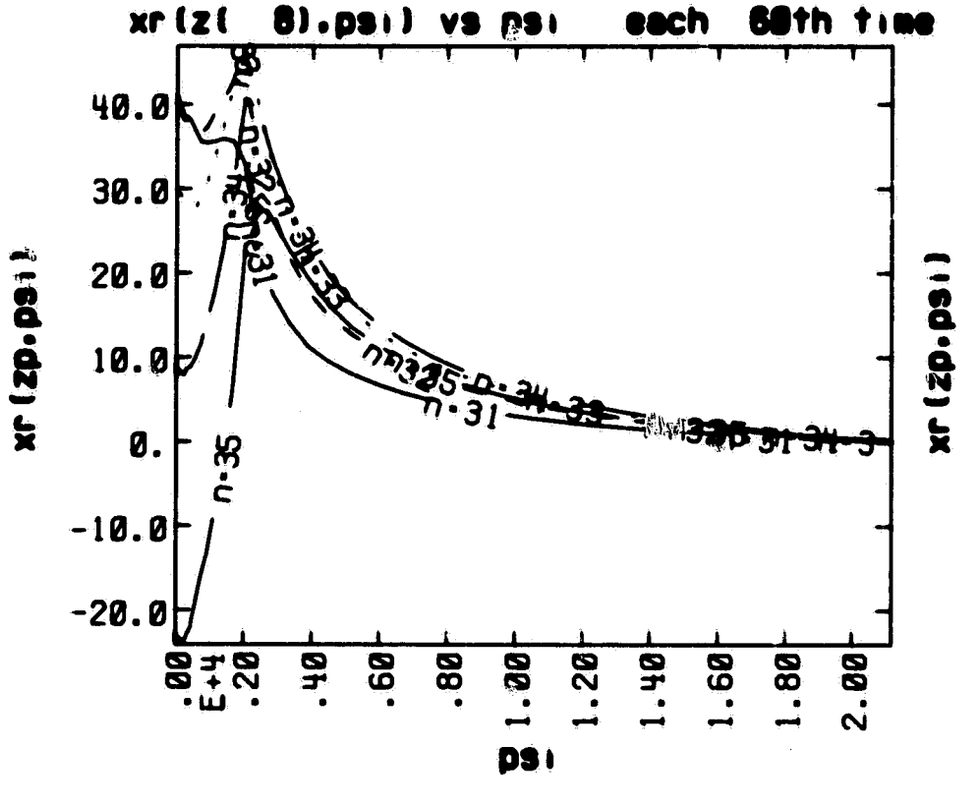

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
1.50
1.00
.50
0.
-.50
-1.00
-1.50
-2.00
-2.50
-3.00
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00

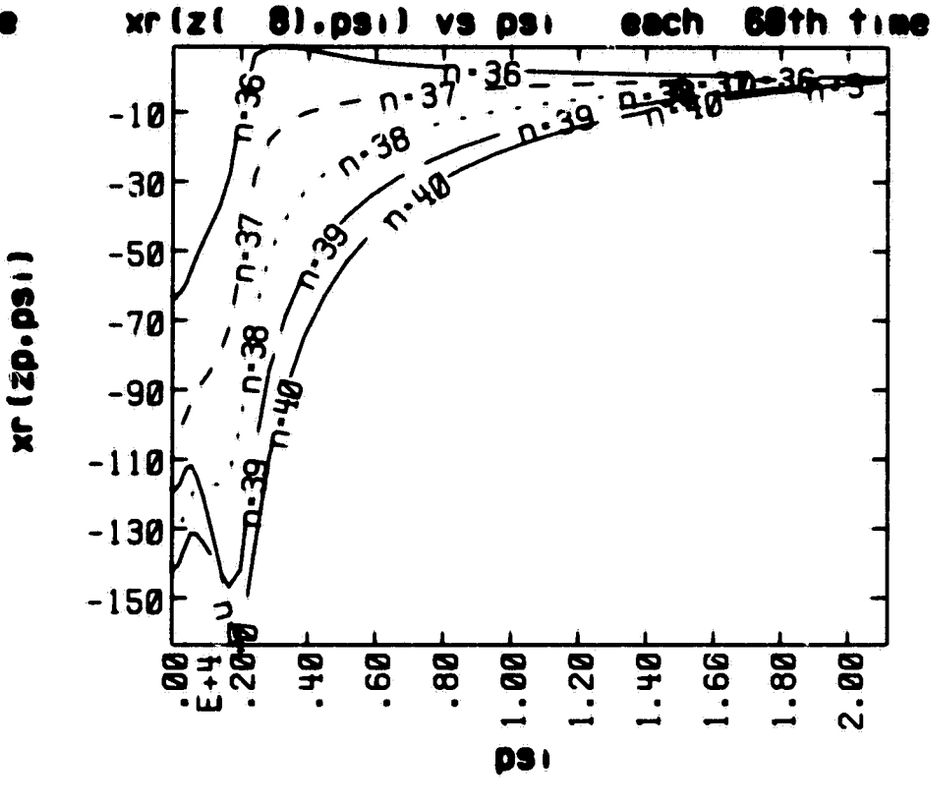

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
3.00
2.00
1.00
0.
-1.00
-2.00
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00

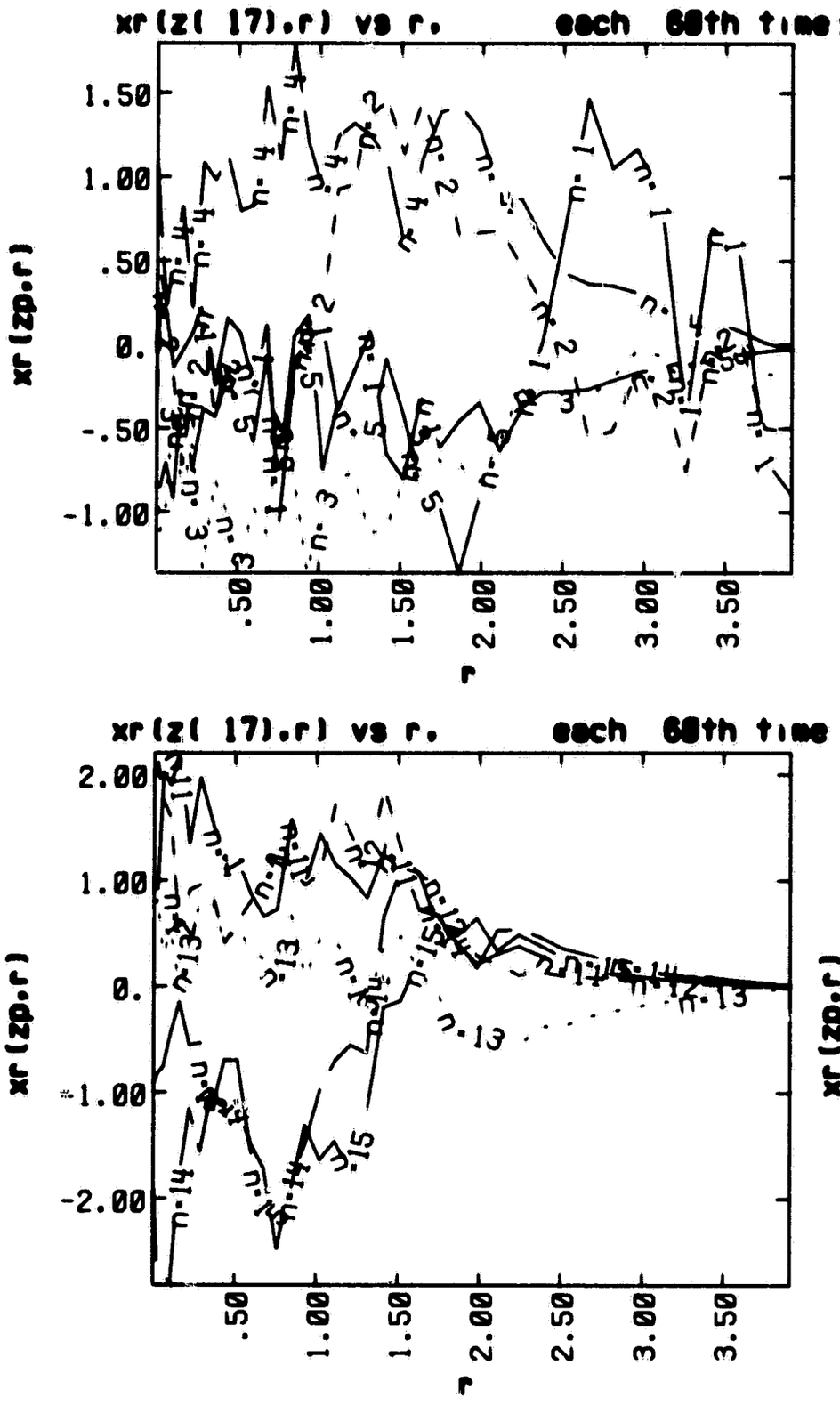

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
4.00
3.00
2.00
1.00
0.
-1.00
-2.00
-3.00
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00

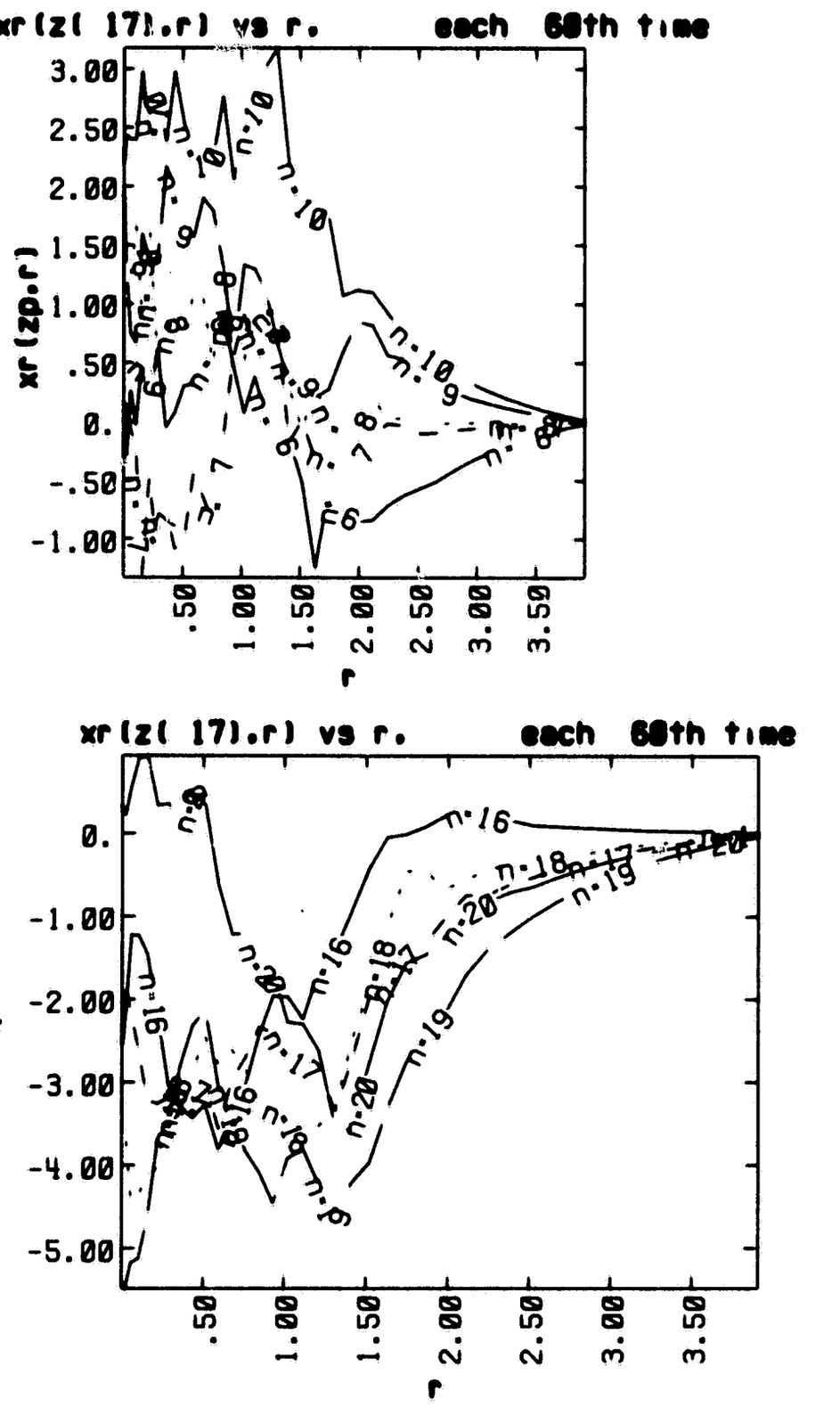

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
0.
-2.0
-4.0
-6.0
-8.0
-10.0
-12.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n·21
n·22
n·23
n·24
n·25


xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
30.0
25.0
20.0
15.0
10.0
5.0
0.
-5.0
-10.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n·26
n·27
n·28
n·29
n·30


xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
40.0
30.0
20.0
10.0
0.
-10.0
-20.0
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n·31
n·32
n·33
n·34
n·35

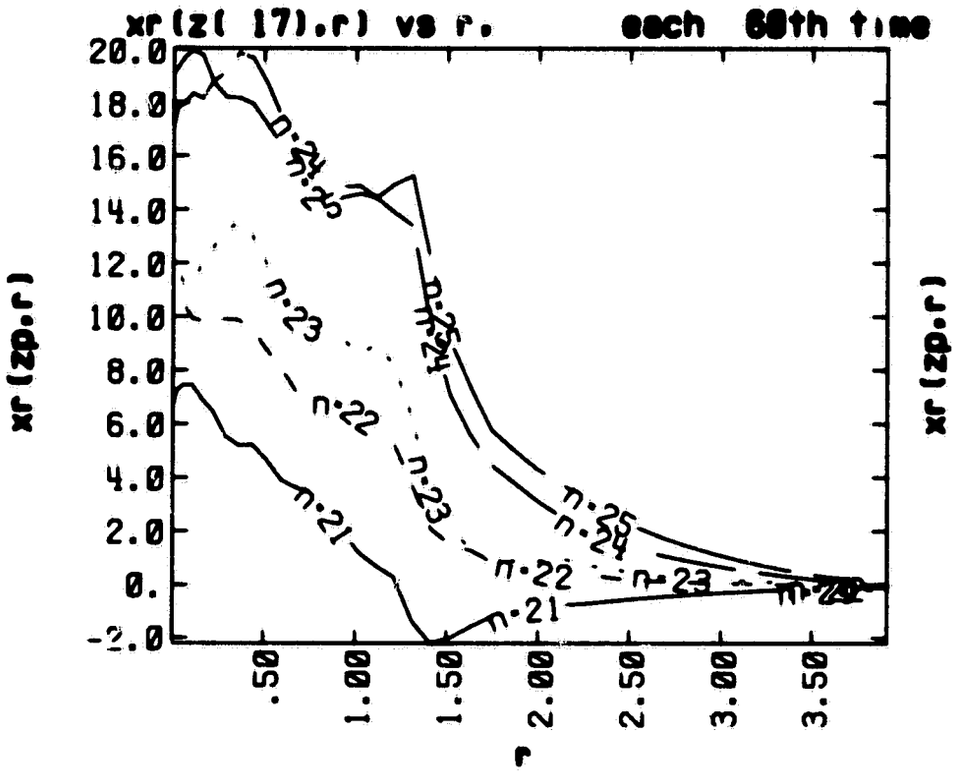

xr(z(8).psi) vs psi each 60th time
xr(zp.psi)
psi
-10
-30
-50
-70
-90
-110
-130
-150
.00
E+4
.20
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
n·36
n·37
n·38
n·39
n·40

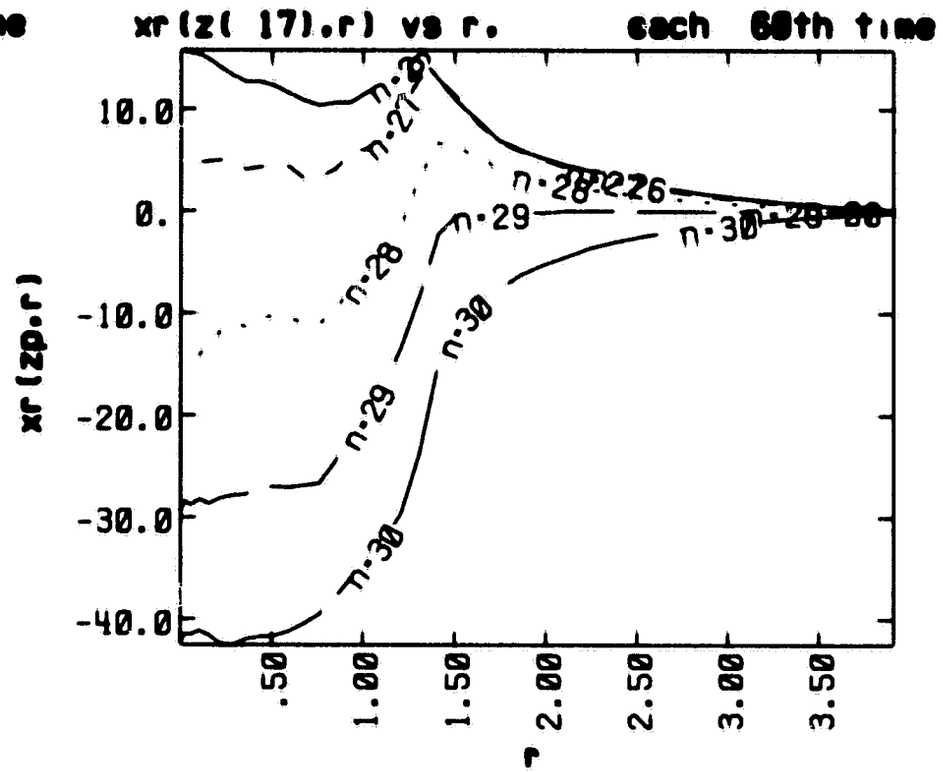

xr(z(17).r) vs r. each 68th time
xr(zp.r)
r

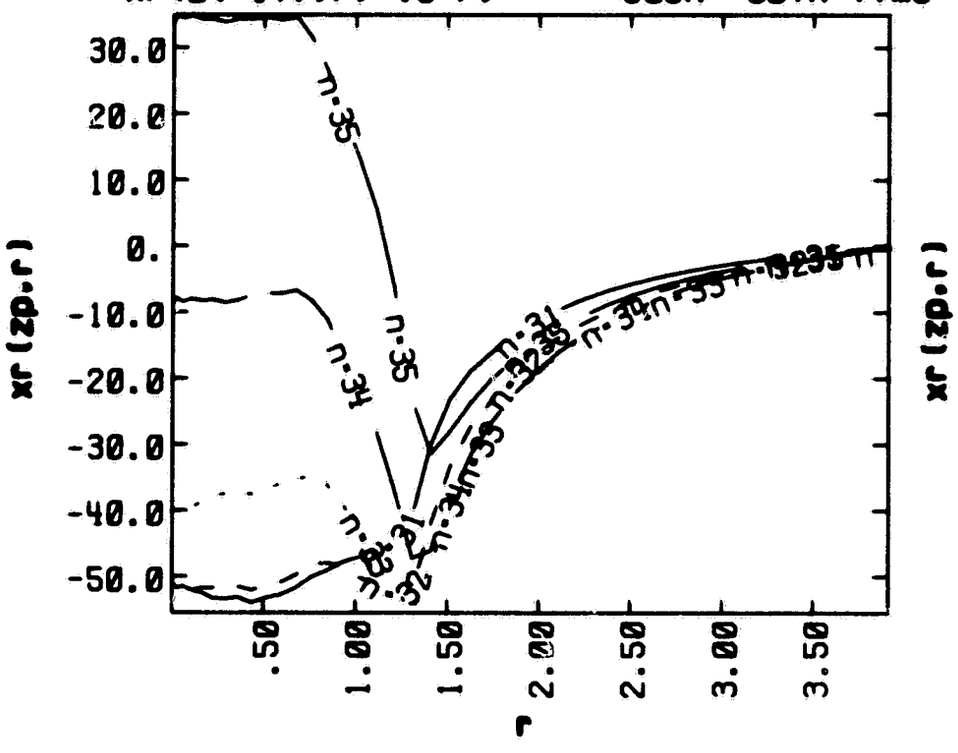

xr(z(17).r) vs r. each 68th time
xr(zp.r)
r

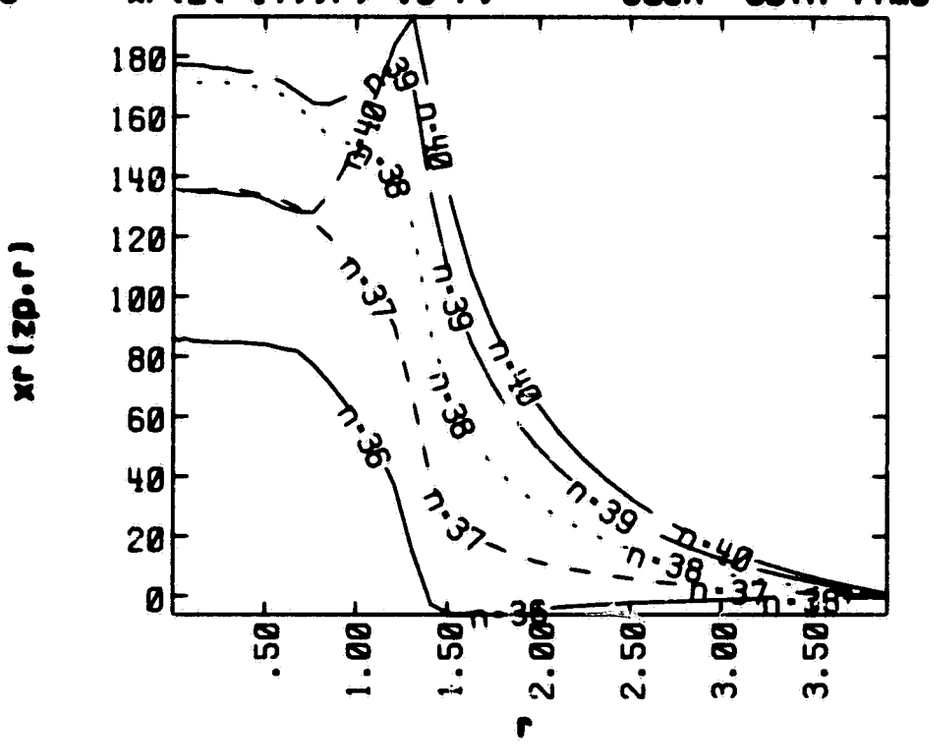
xr(z(17).r) vs r. each 68th time
xr(zp.r)
r

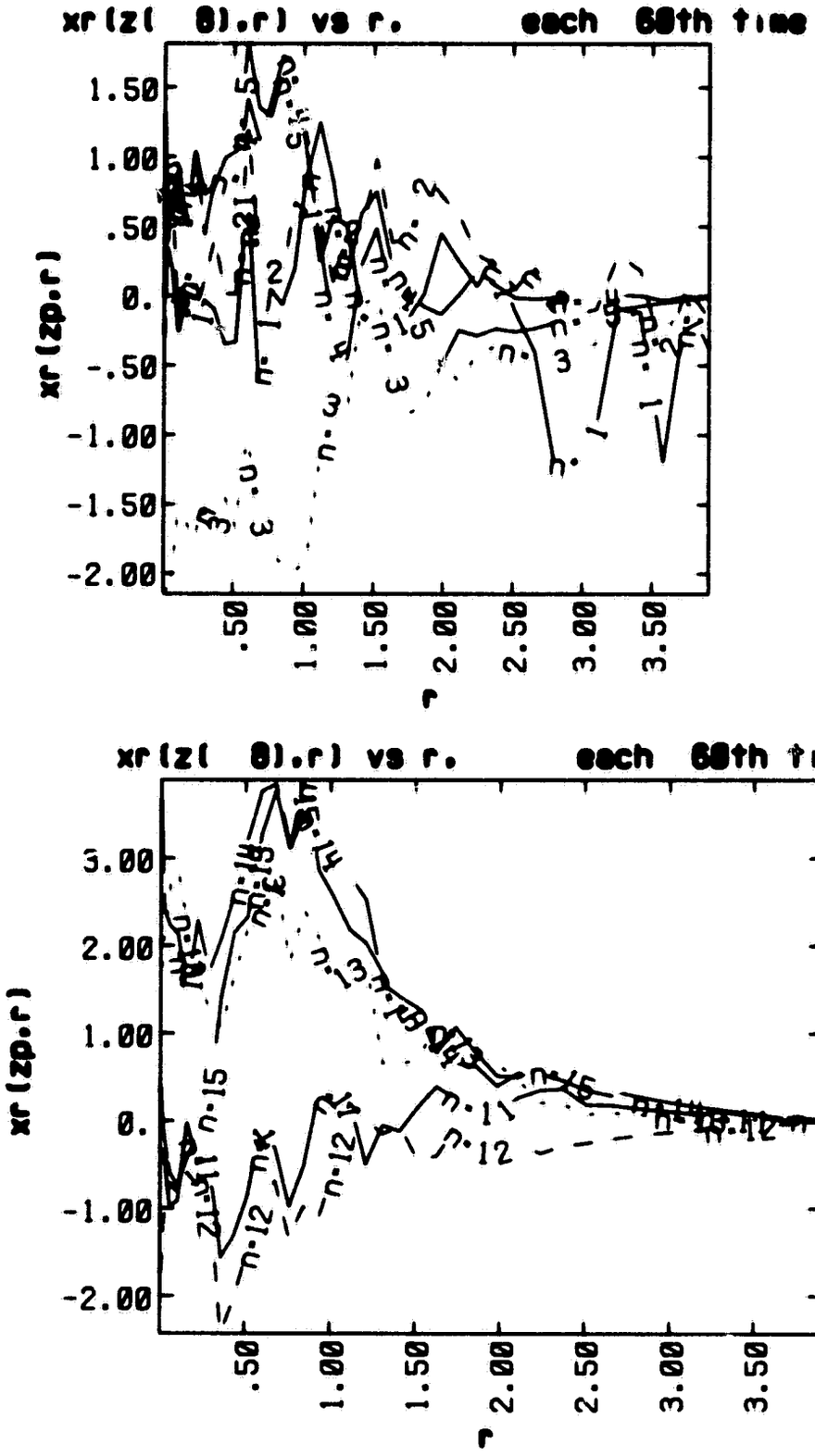
xr(z(17).r) vs r. each 68th time
xr(zp.r)
r

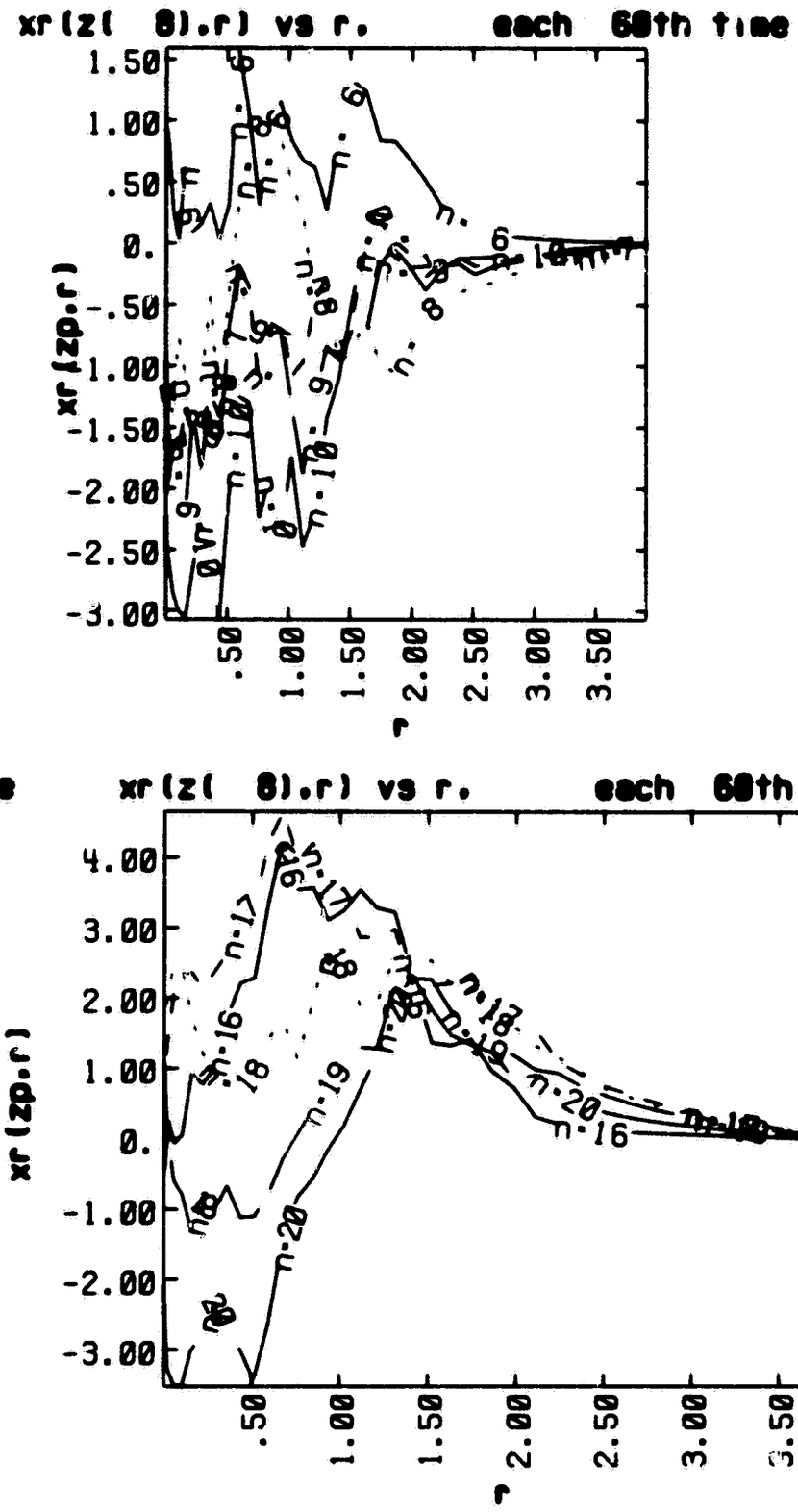

xr(z(17).r) vs r. each 60th time
xr(zp.r)
r
n·21
n·22
n·23
n·24
n·25


xr(z(17).r) vs r. each 60th time
xr(zp.r)
r
n·27
n·28
n·29
n·30


xr(z(17).r) vs r. each 60th time
xr(zp.r)
r
n·34
n·35

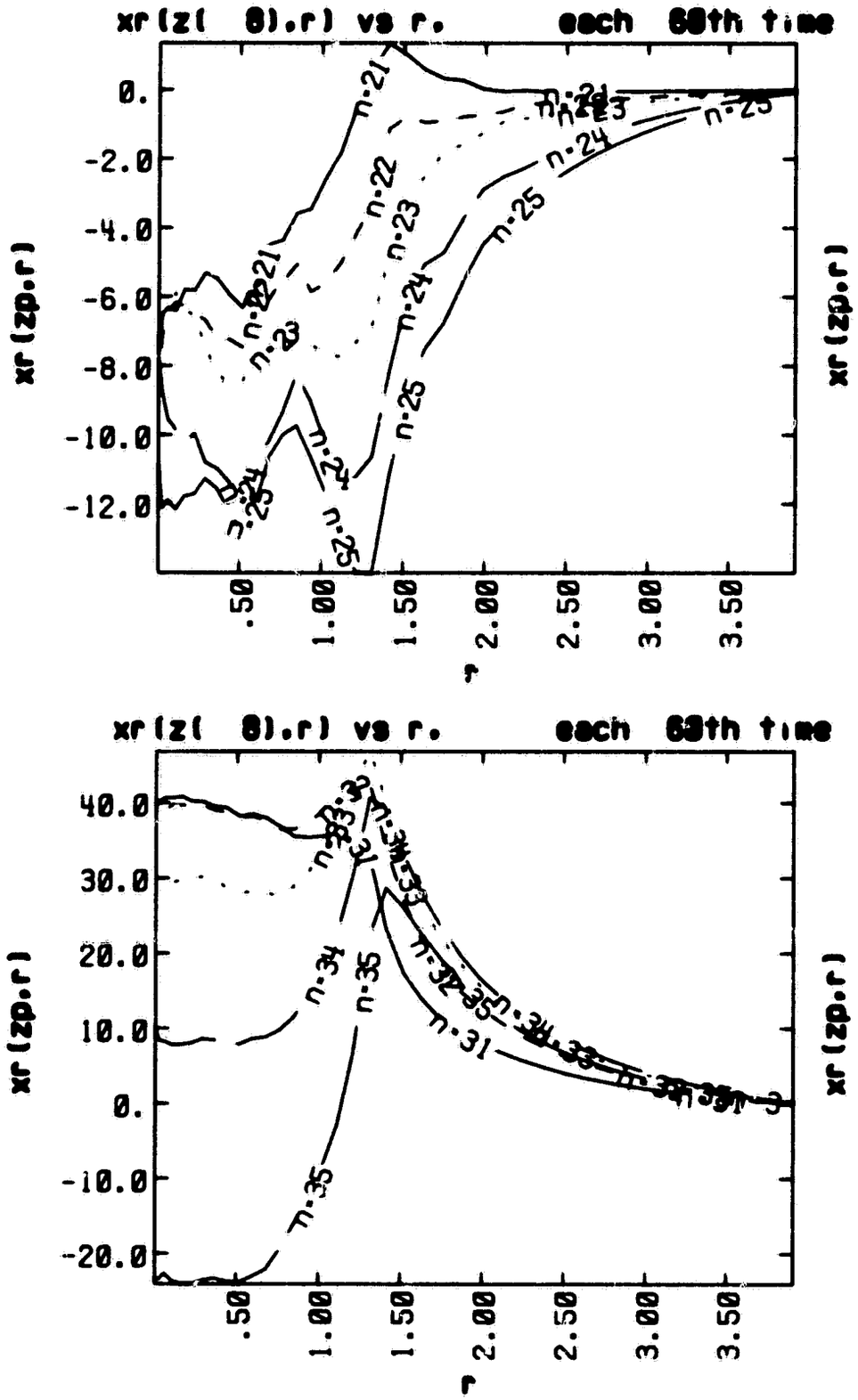

xr(z(17).r) vs r. each 60th time
xr(zp.r)
r
n·36
n·37
n·38
n·39
n·40

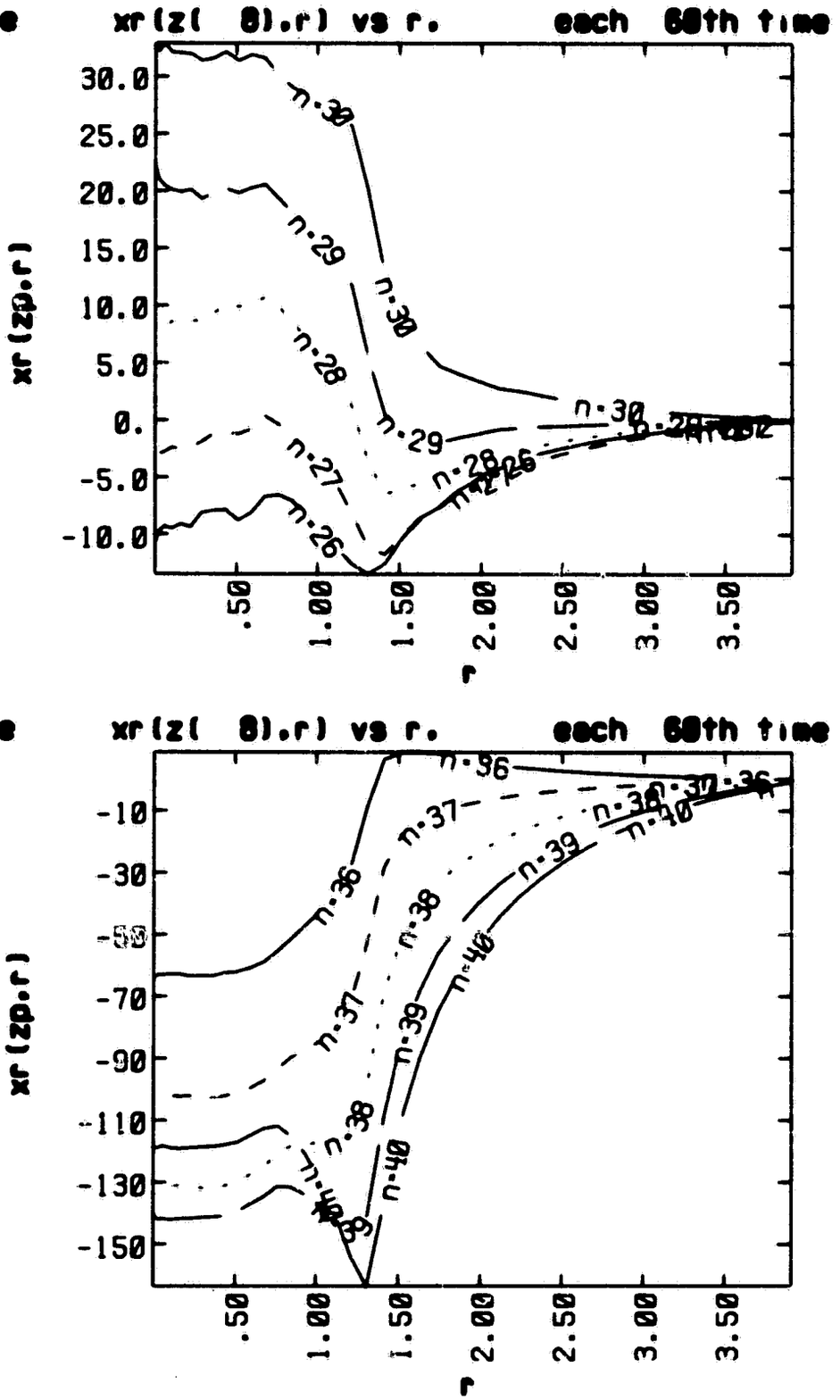

xr(z(0).r) vs r. each 60th time
xr(zp.r)
r


xr(z(0).r) vs r. each 60th time
xr(zp.r)
r

xr(z(0).r) vs r. each 60th time
xr(zp.r)
r

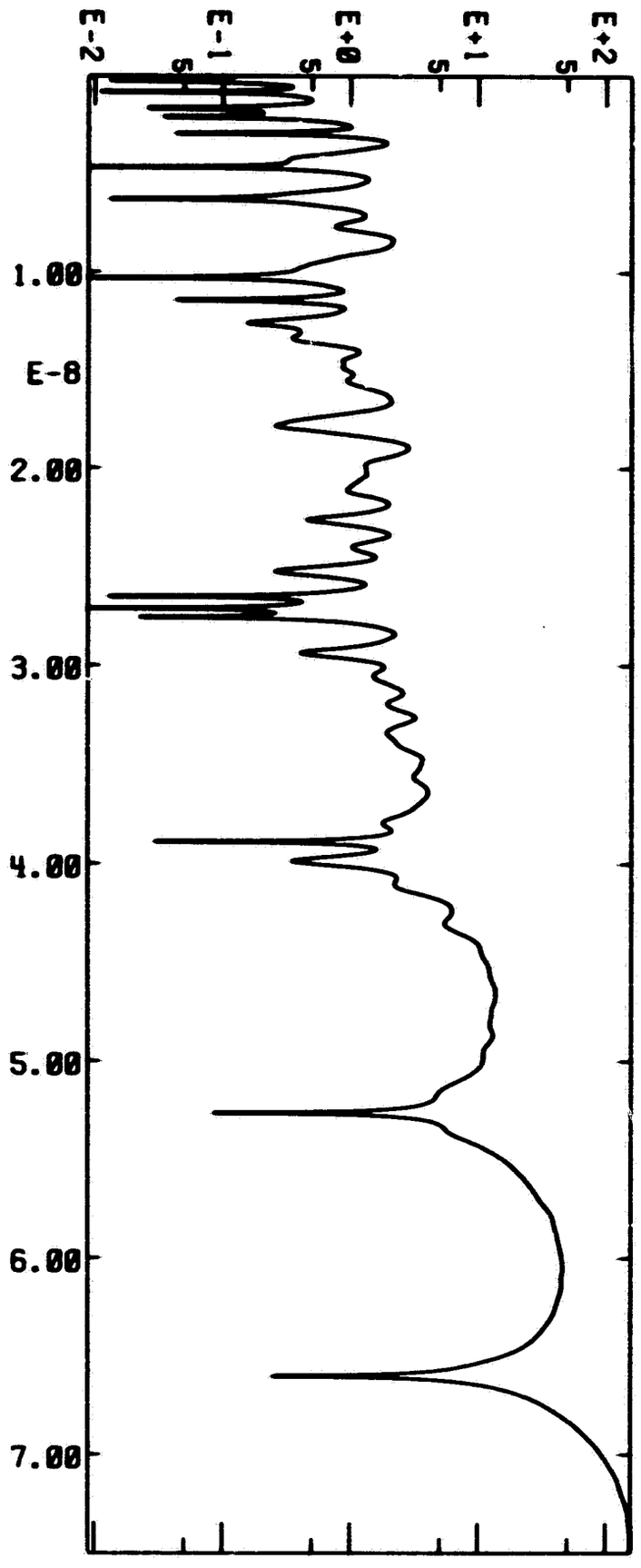
xr(z(0).r) vs r. each 60th time
xr(zp.r)
r


xr(zp,r)
r
n·21
n·22
n·23
n·24
n·25

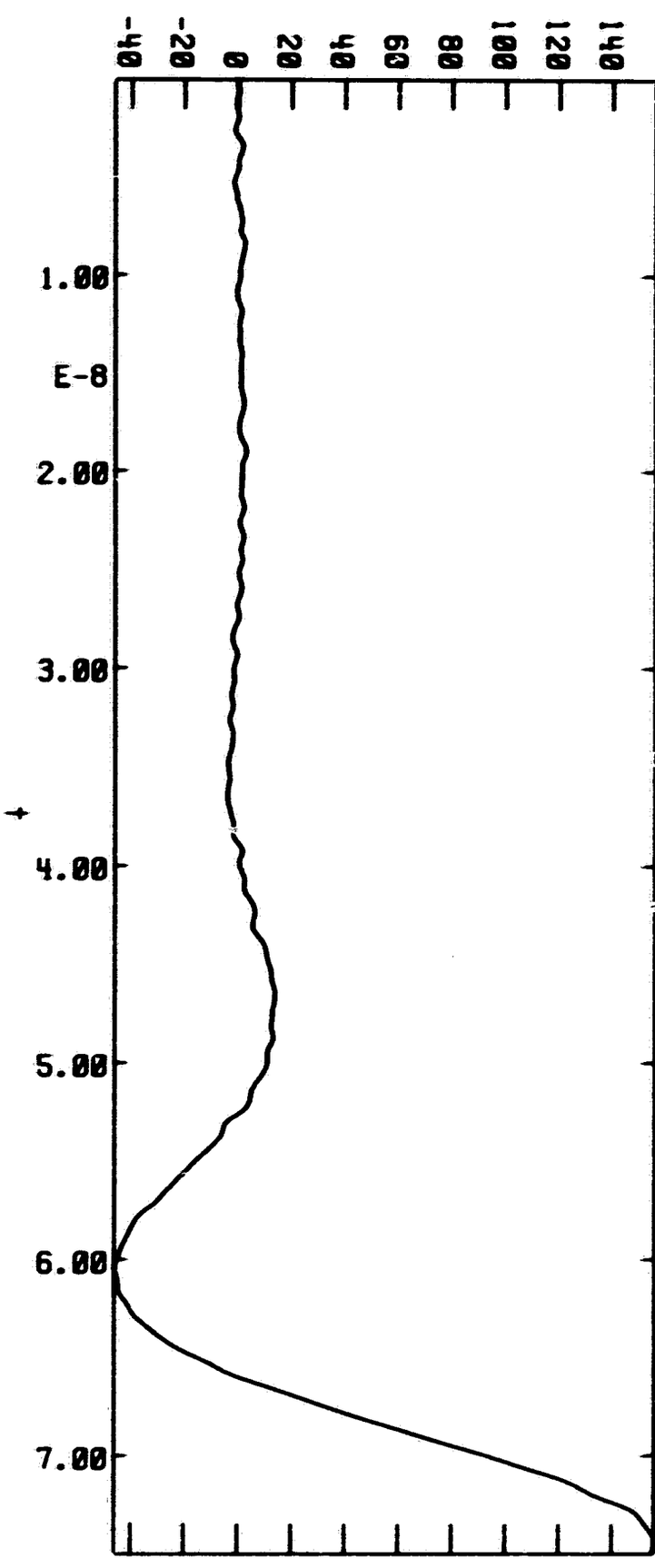

xr(zp,r)
r
n·26
n·27
n·28
n·29
n·30

xr(zp,r)
r
n·31
n·32
n·33
n·34
n·35

xr(zp,r)
r
n·36
n·37
n·38
n·39
n·40


E-2
E-1
E+0
E+1
E+2
1.00
E-8
2.00
3.00
4.00
5.00
6.00
7.00

xr (kplot)


-40
-20
0
20
40
60
80
100
120
140
1.00
E-8
2.00
3.00
4.00
5.00
6.00
7.00
xr (kplot) vs t

box u21$

graflib:gcs02042kcs02042
16 frames

15:33:2211/09/82 c