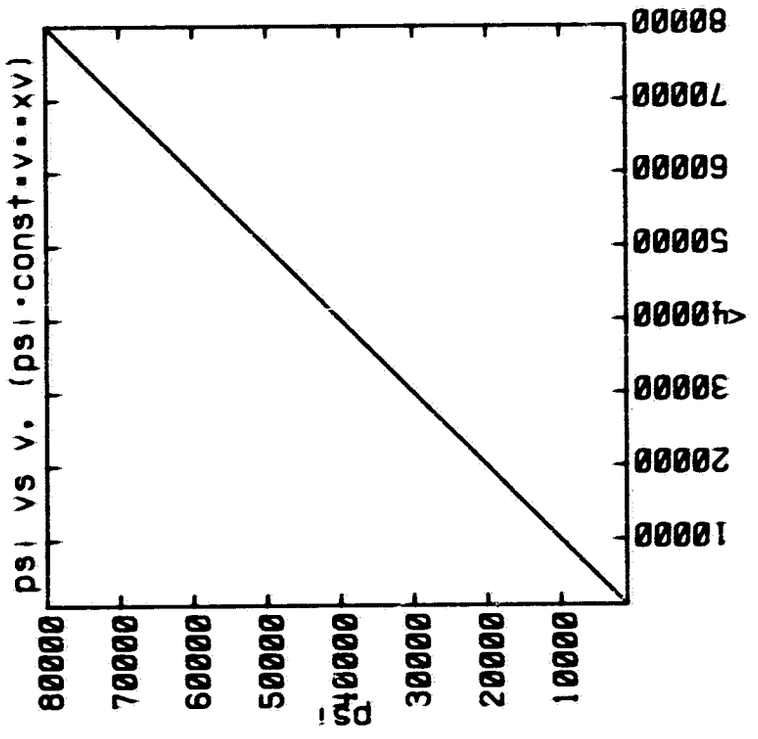
```
box u21$

graflib:gcs12082kcs11122

15:59:3302/09/83c
dropfile name = +xfleqtc


fr80      driver   1.8
```

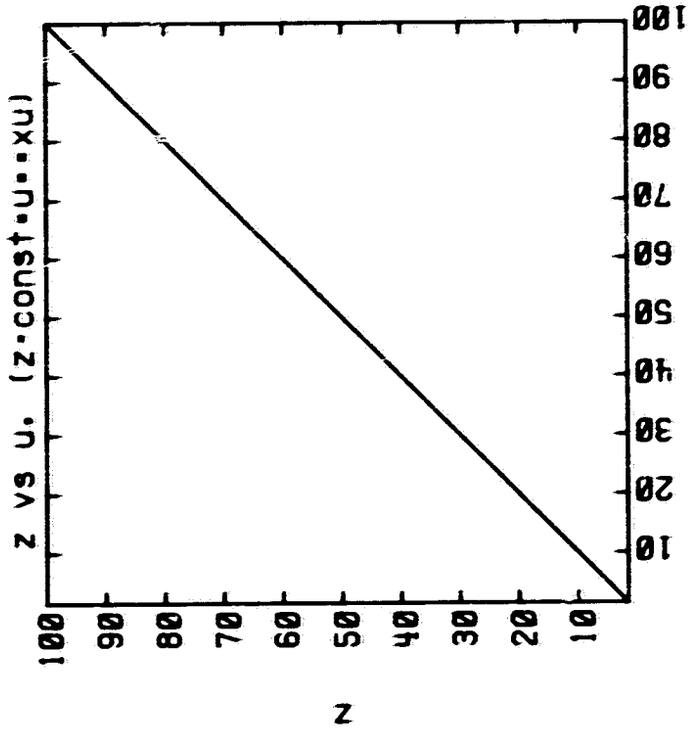
```
box  u21$

graflib:gcs12082kcs11122

15:59:3302/09/83c
dropfile name = +xfleqtc


fr80      driver   1.8
```

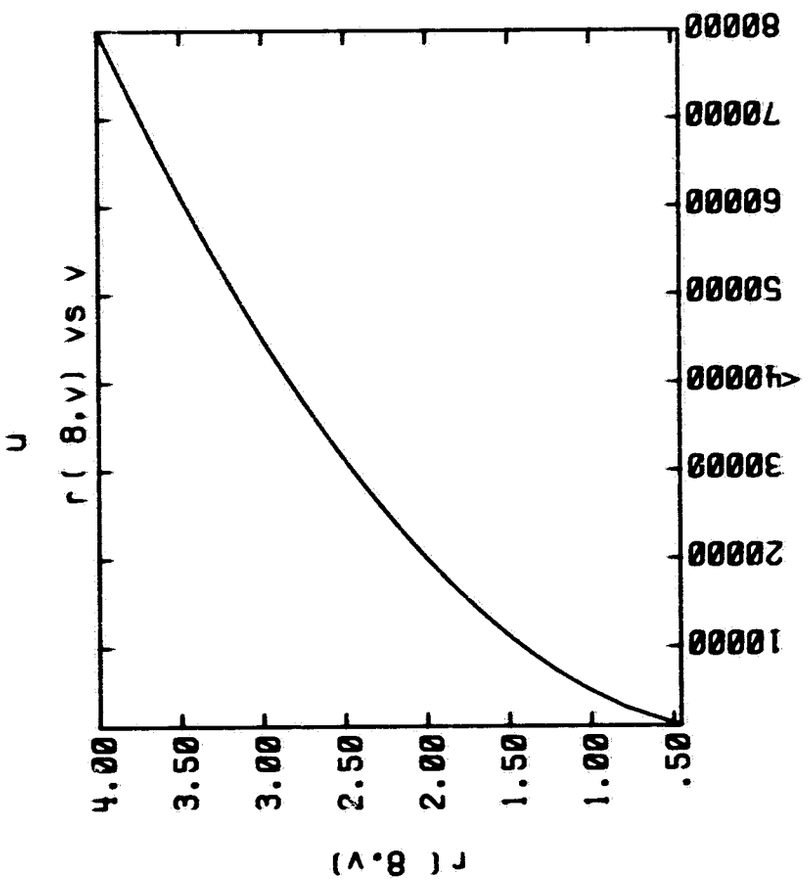
```
mm        = 1
bias      = 1.
lmax      = 4
nmax      = 250
dv        = 1.
dt        = 3.125e-11
du        = 1.
ndiag     = 20
fil       = 1.
fizx      = 1.
fjl       = 1.
fjrx      = -1.
rho0      = 0.
b0        = 10000.
ex0       = 1.
ex1       = 0.
u0        = 0.
v0        = 0.
fpsi      = 0.5
fu        = 0.5
fv        = 0.5
fz        = 0.5
azm       = 0.
apsim     = 0.
flr       = 1.
sf6       = 1.
sf8       = 1.
kplotm    = 0
kzs       = 0
jfour     = 1
nfourp    = 500
nfourmax  = 5
$
b0        = 10000.
beta0     = 23.
delrho    = 5.e-02
stable    = 0.5
en0       = 1.e+14
echarg    = 4.8e-10
lb        = 10.
rw        = 4.
xm        = 3.8317
zol       = 10.
dtrel     = 0.1
theta0    = 1.570796
$
```

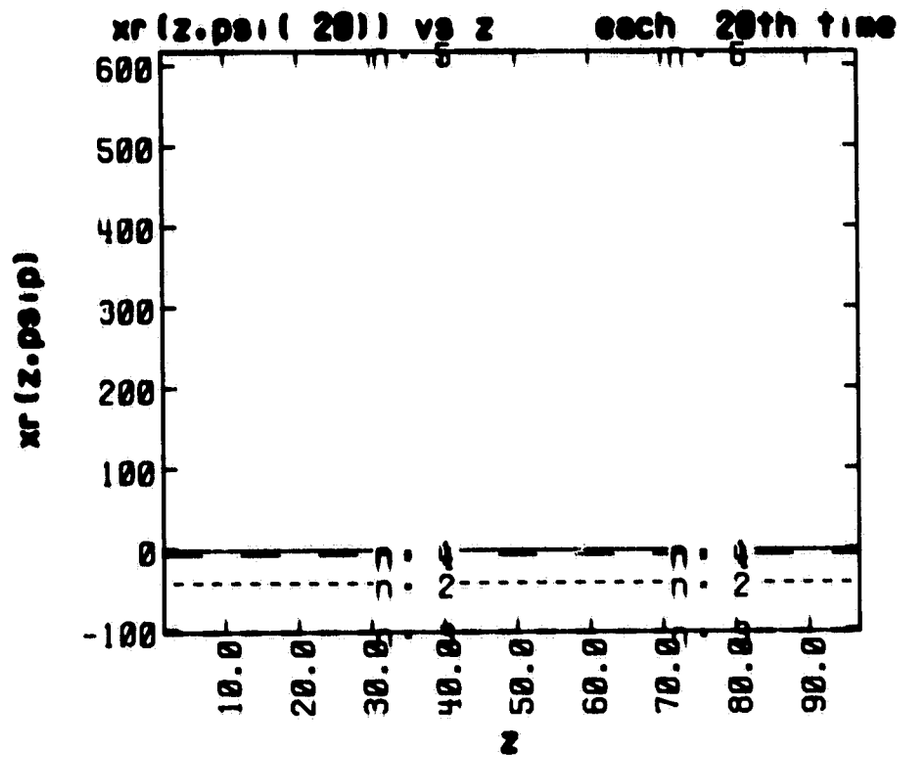
this problem run by xfleqt

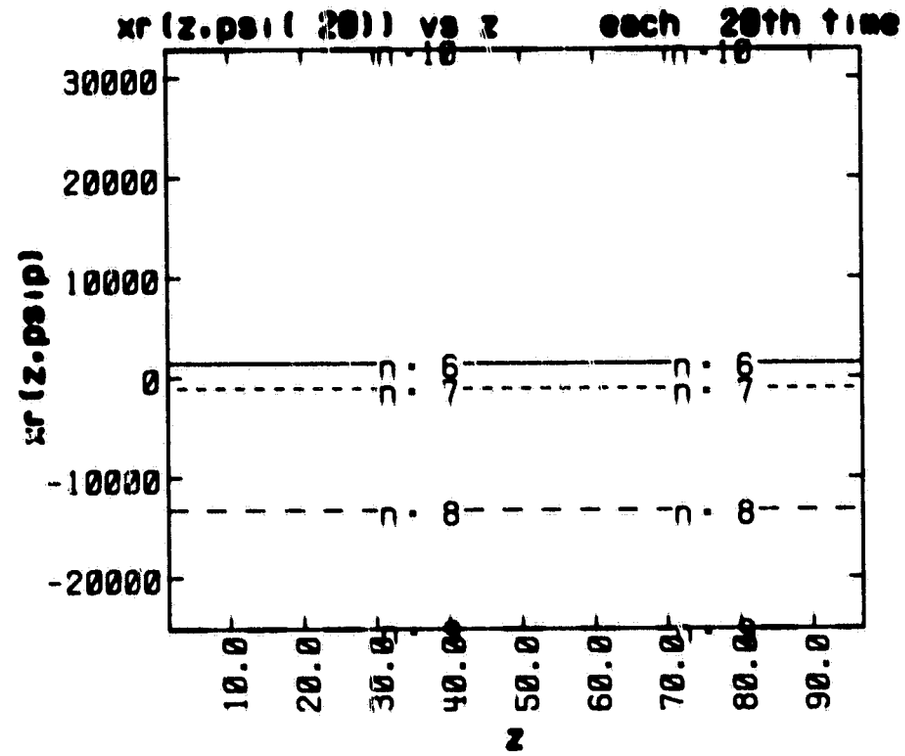
```
dt=    9.669800e-10    ix=      34    jx=      40
total time steps =      250    no. of iterations =        4    bias=   1.00000
omega1=  1.03414758e+08    omega2 =  6.02037261e+06    omega0 =  5.47175655e+07
stable =  5.00000000e-01    flr=  1.00000000e+00    sf6=  1.00000000e+00    sf8=  1.00000000e+01
kplot=     559    kzs=       0
cpu time =  1.57234470e+13
i-o time =  1.52731200e+12
sys time =  1.75658500e+12
   u exponent (xu) =          1.00000000e+00
   v exponent (xv)=  1.00000000e+00
en0=  1.00000000e+14    en1=  6.25000000e+11    b0=  1.00000000e+04
analytic freq (omana1)=  5.43448612e+07   analytic freq (omana2)=  0.
analytic growth (groana)=  4.85310888e+07
```

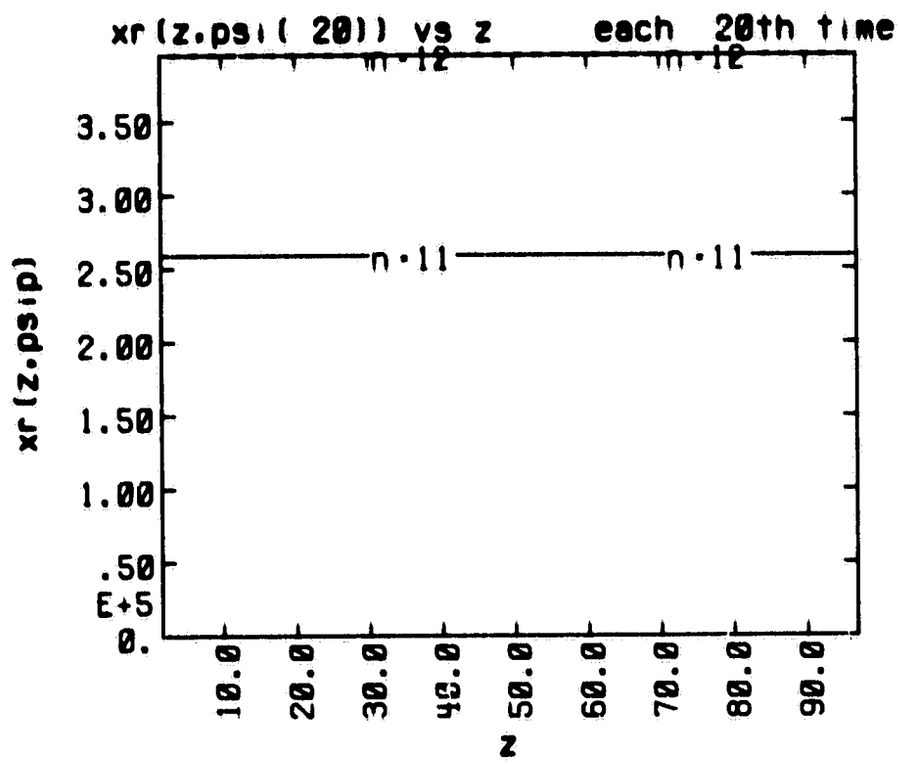

psi vs v. (psi·const·v··xv)
psi
v

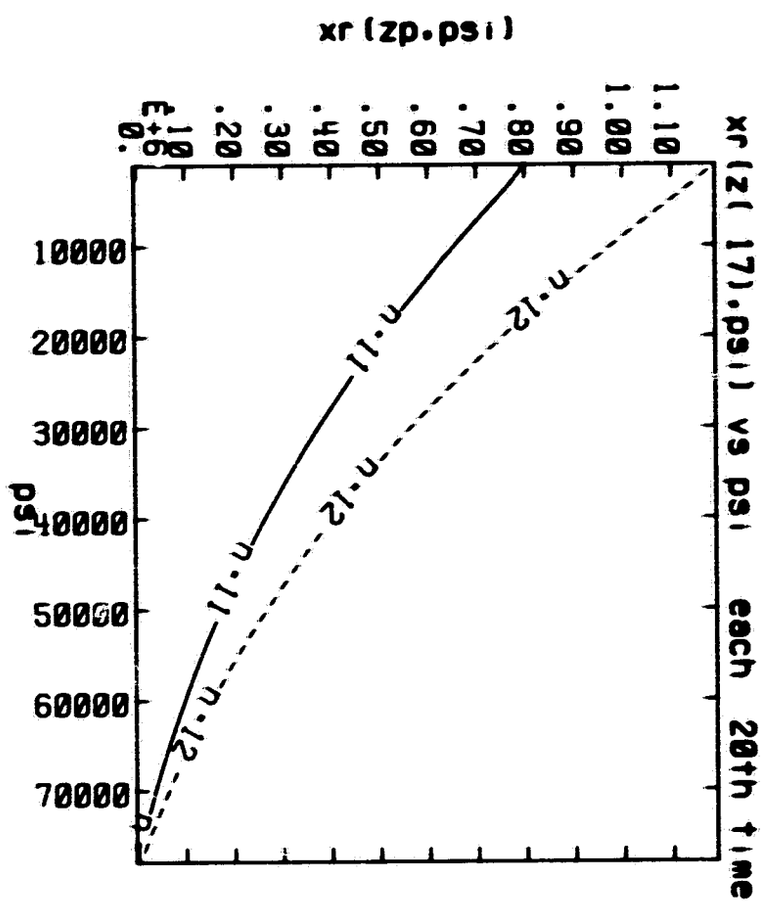

z vs u. (z·const·u··xu)
z
u

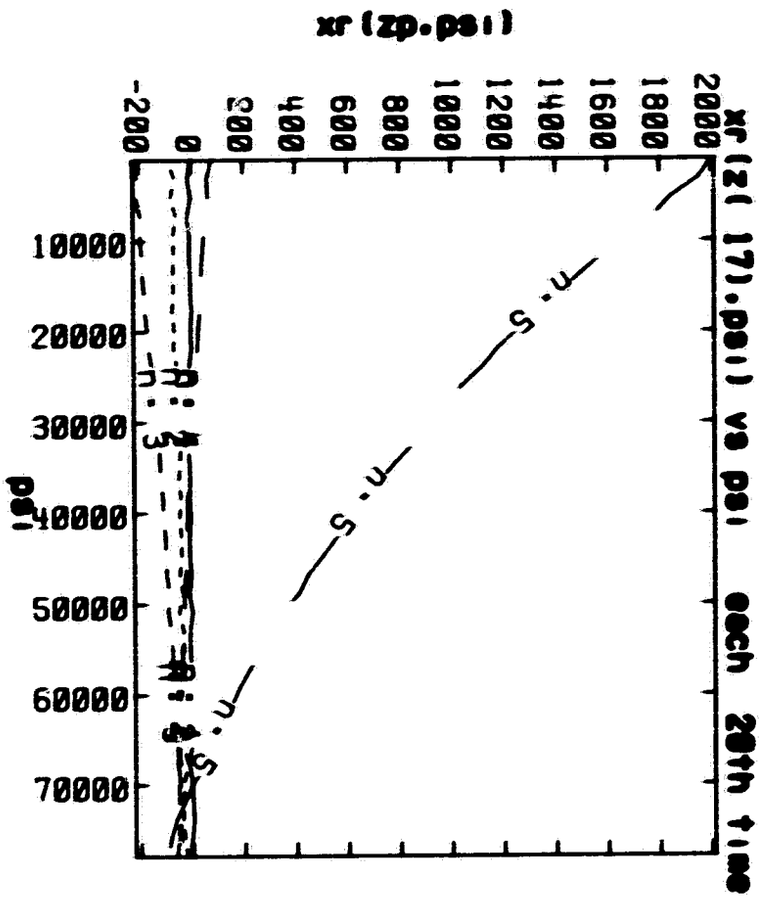

r(8,v) vs v
r(8,v)
v

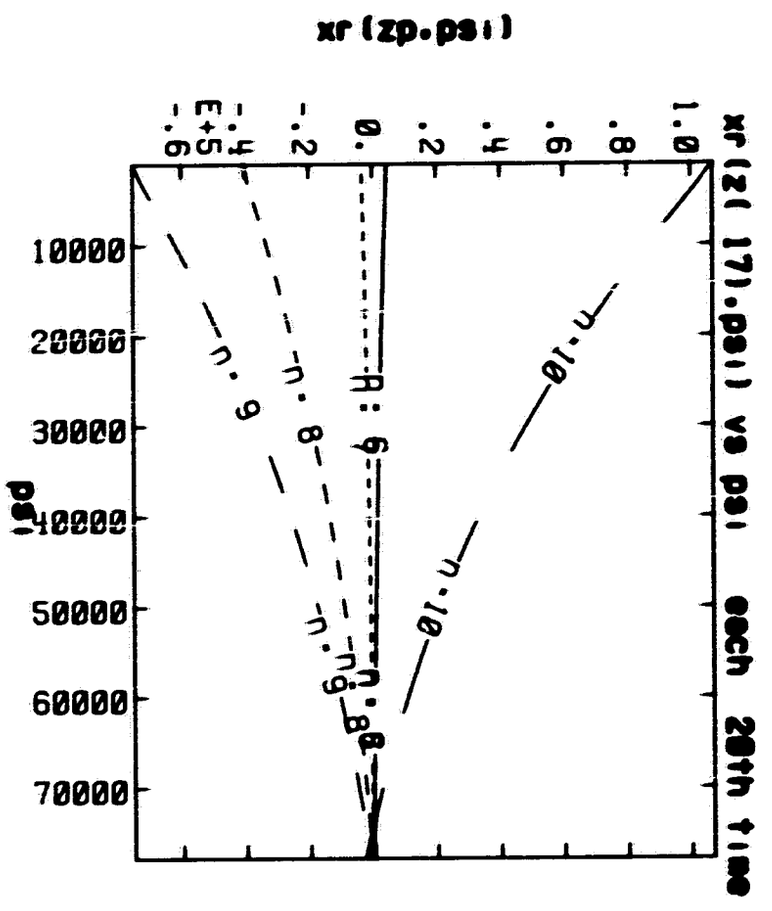

xr(z,psi(20)) vs z each 20th time
xr(z,psip)
z
n: 5
n: 6
n: 4
n: 2
600
500
400
300
200
100
0
-100
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0

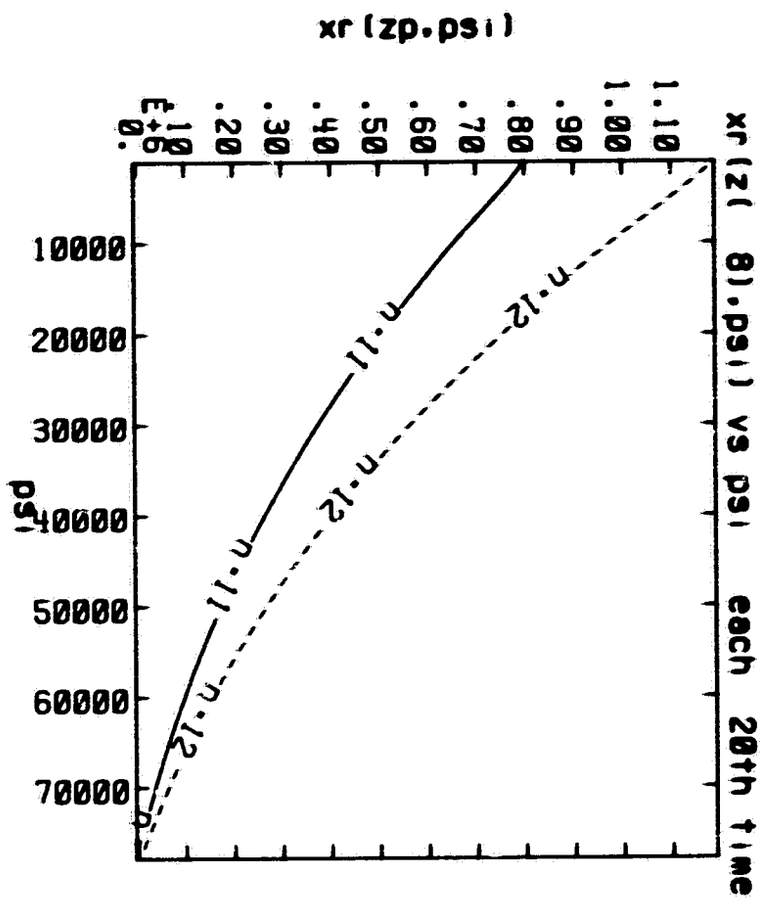

xr(z,psi(20)) vs z each 20th time
xr(z,psip)
z
n: 10
n: 6
n: 7
n: 8
30000
20000
10000
0
-10000
-20000
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0

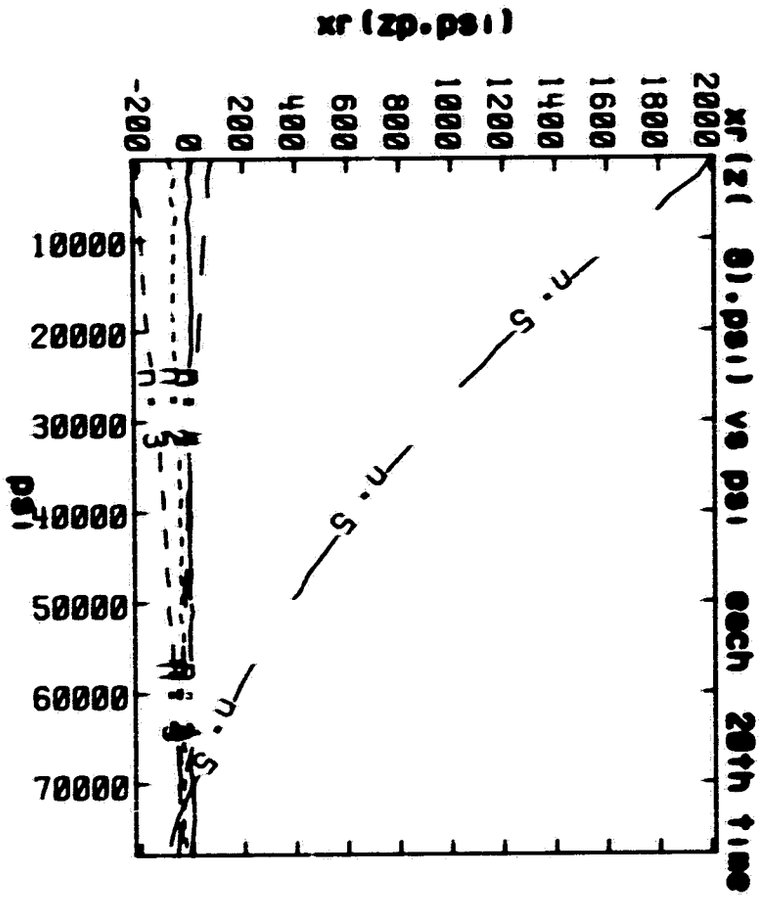

xr(z,psi(20)) vs z each 20th time
xr(z,psip)
z
n·12
n·11
3.50
3.00
2.50
2.00
1.50
1.00
.50
E+5
0.
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0

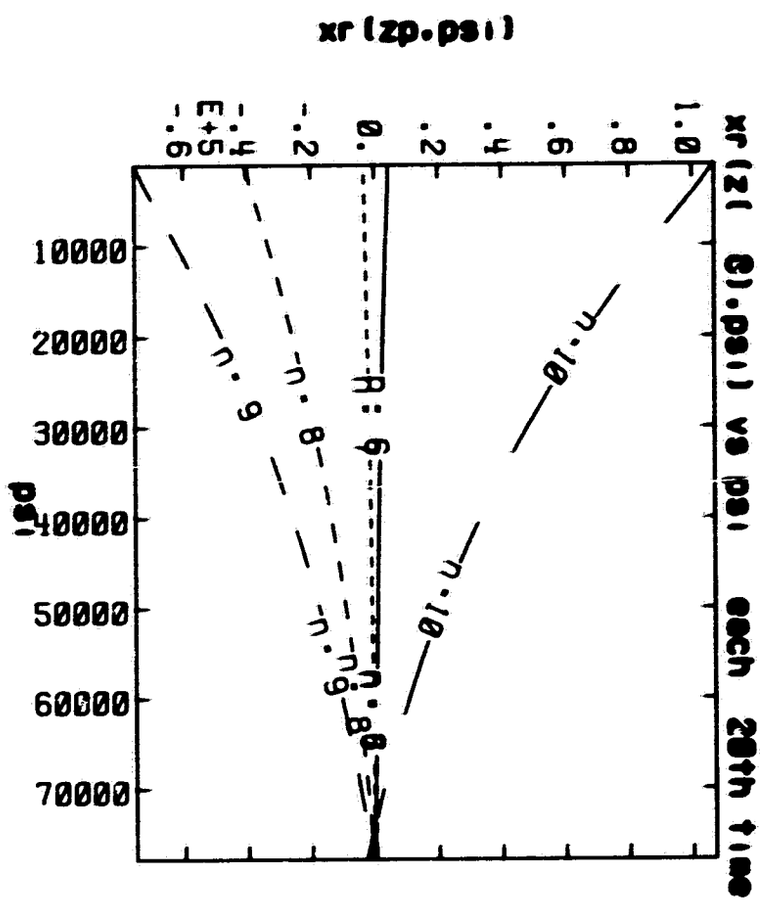

xr(zp.psi)
xr(zl(17).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
E+10
0.
.10
.20
.30
.40
.50
.60
.70
.80
.90
1.00
1.10
n.11
n.12
n.12
n.12

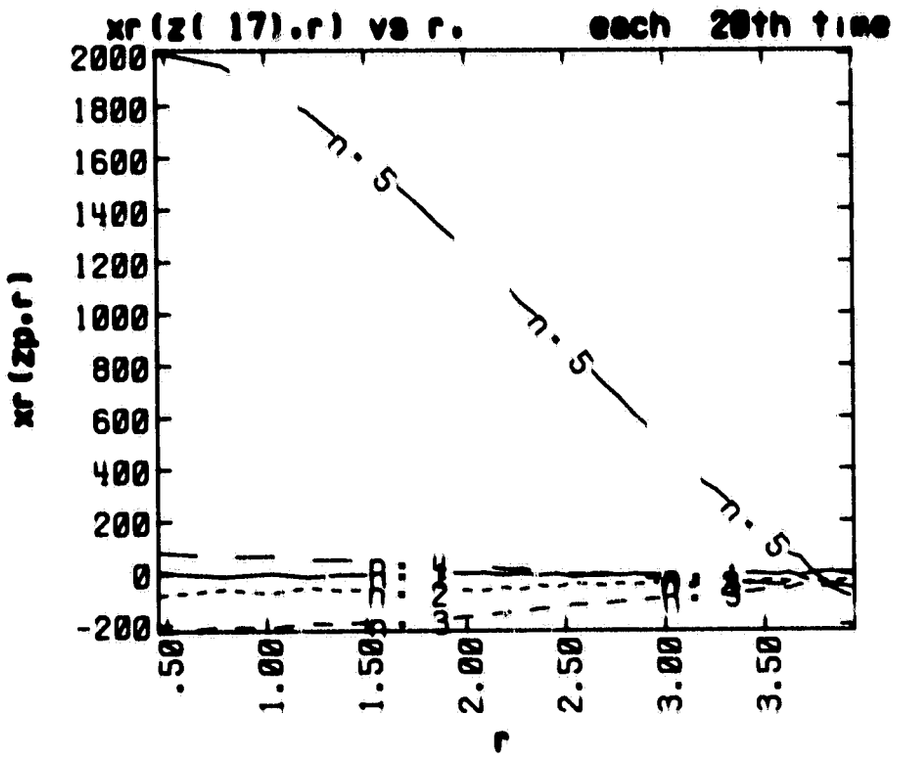

xr(zp.psi)
xr(zl(17).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
-200
0
200
400
600
800
1000
1200
1400
1600
1800
2000
n.5
n.5
n.5

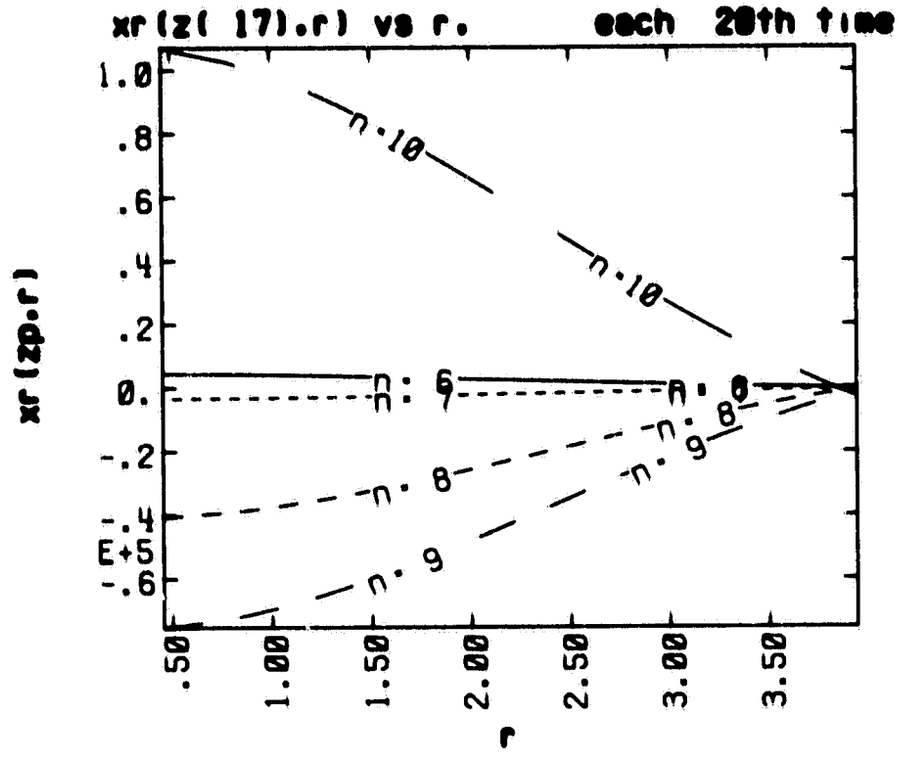

xr(zp.psi)
xr(zl(17).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
E+5
-.6
-.4
-.2
0.
.2
.4
.6
.8
1.0
n.9
n.8
n.8
n.10
n.10

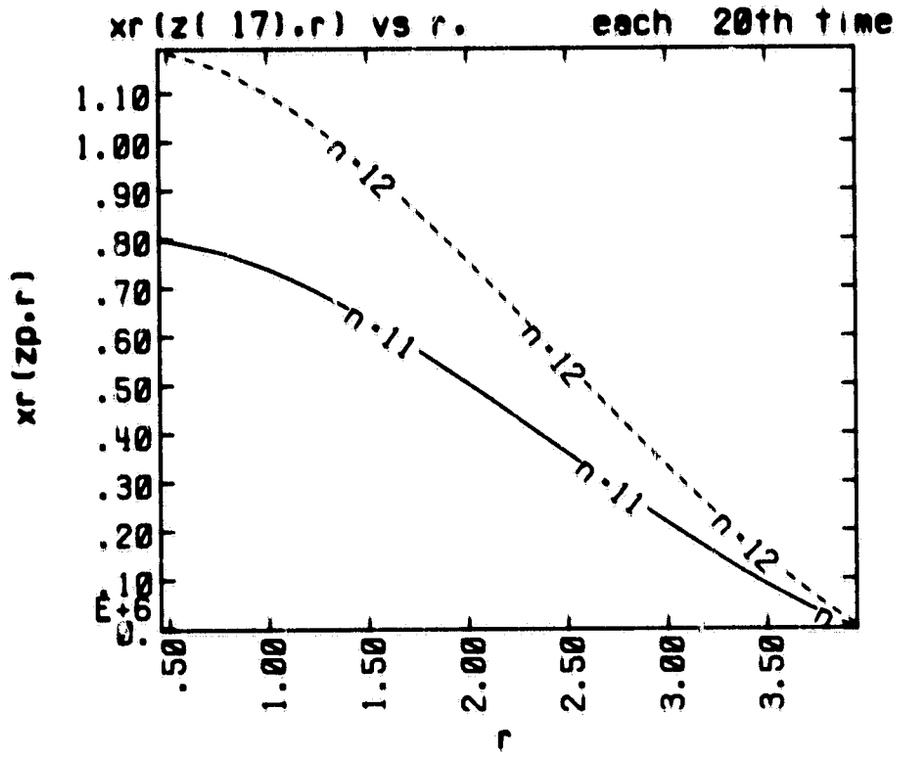

xr(zp.psi)
xr(zi 8).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
1.10
1.00
.90
.80
.70
.60
.50
.40
.30
.20
.10
0.
E+0
n.11
n.12
n.12
n.12

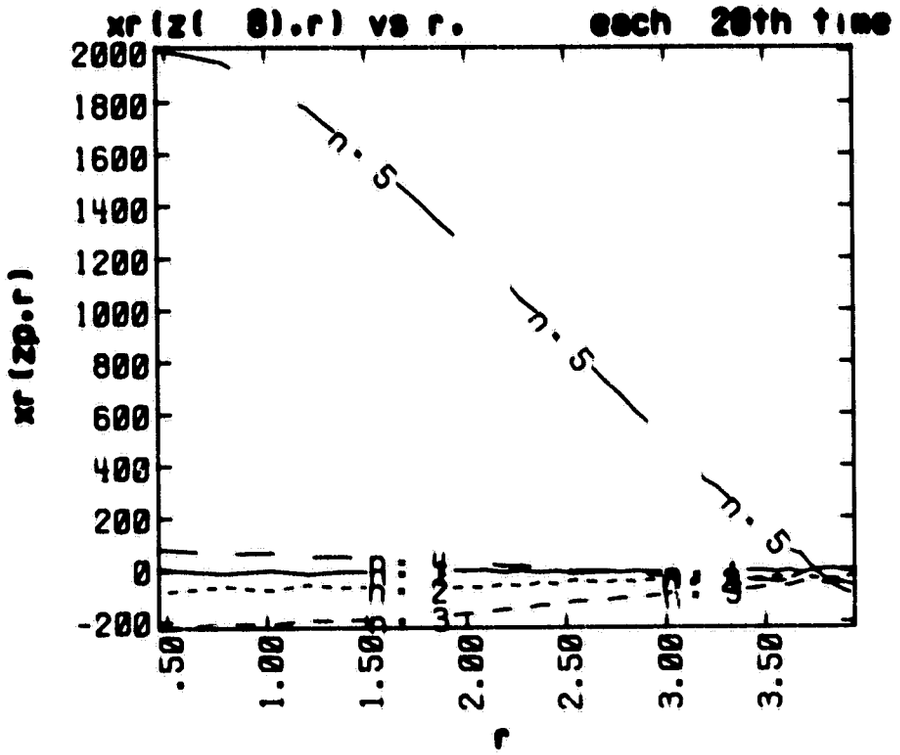

xr(zp.psi)
xr(zi 8).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200
n.5
n.5
n.5
n.u

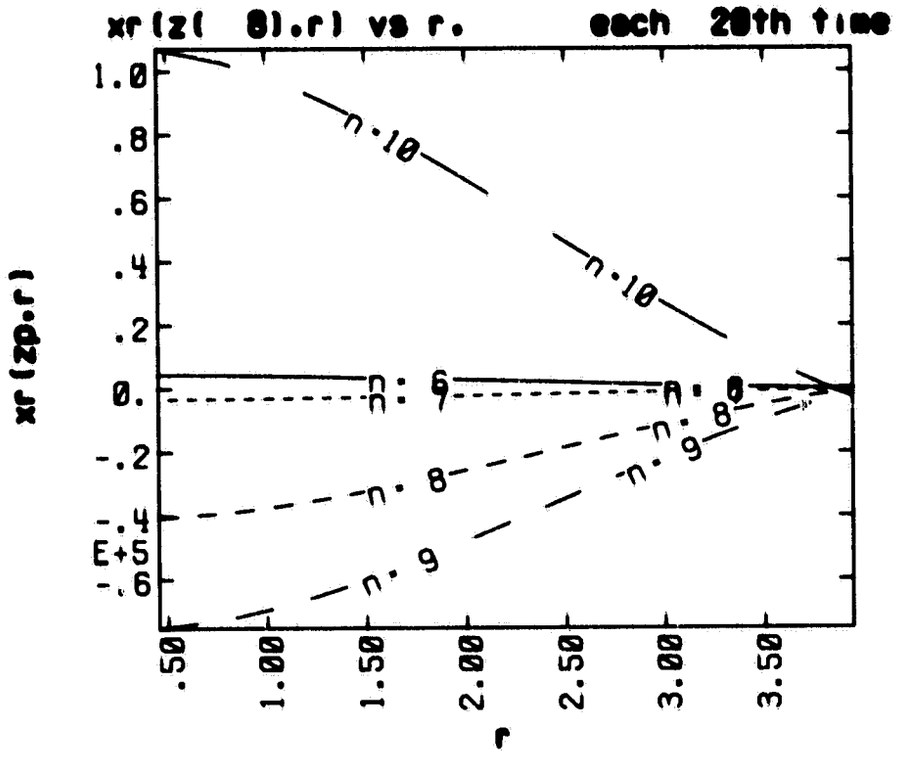

xr(zp.psi)
xr(zi 8).psi) vs psi each 20th time
psi
10000
20000
30000
40000
50000
60000
70000
1.0
.8
.6
.4
.2
0.
-.2
-.4
-.6
E+5
n.10
n.10
n.9
n.8
n.8
n.9

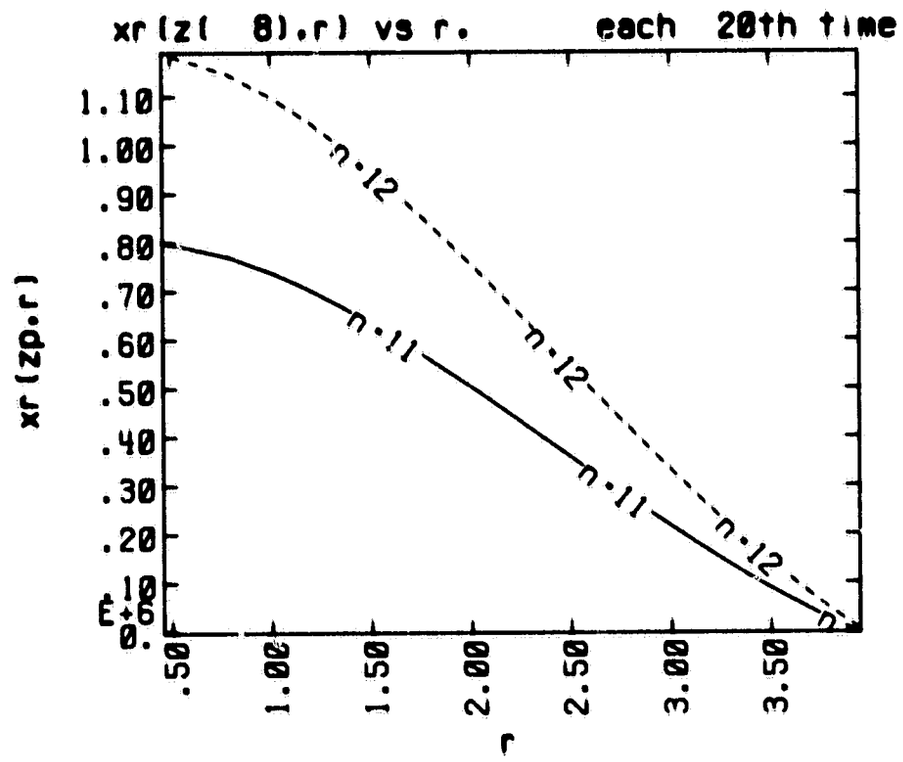

xr(z(17).r) vs r. each 20th time
xr(zp.r)
r
n: 5
n: 4
n: 2
n: 3
n: 1
n: 9

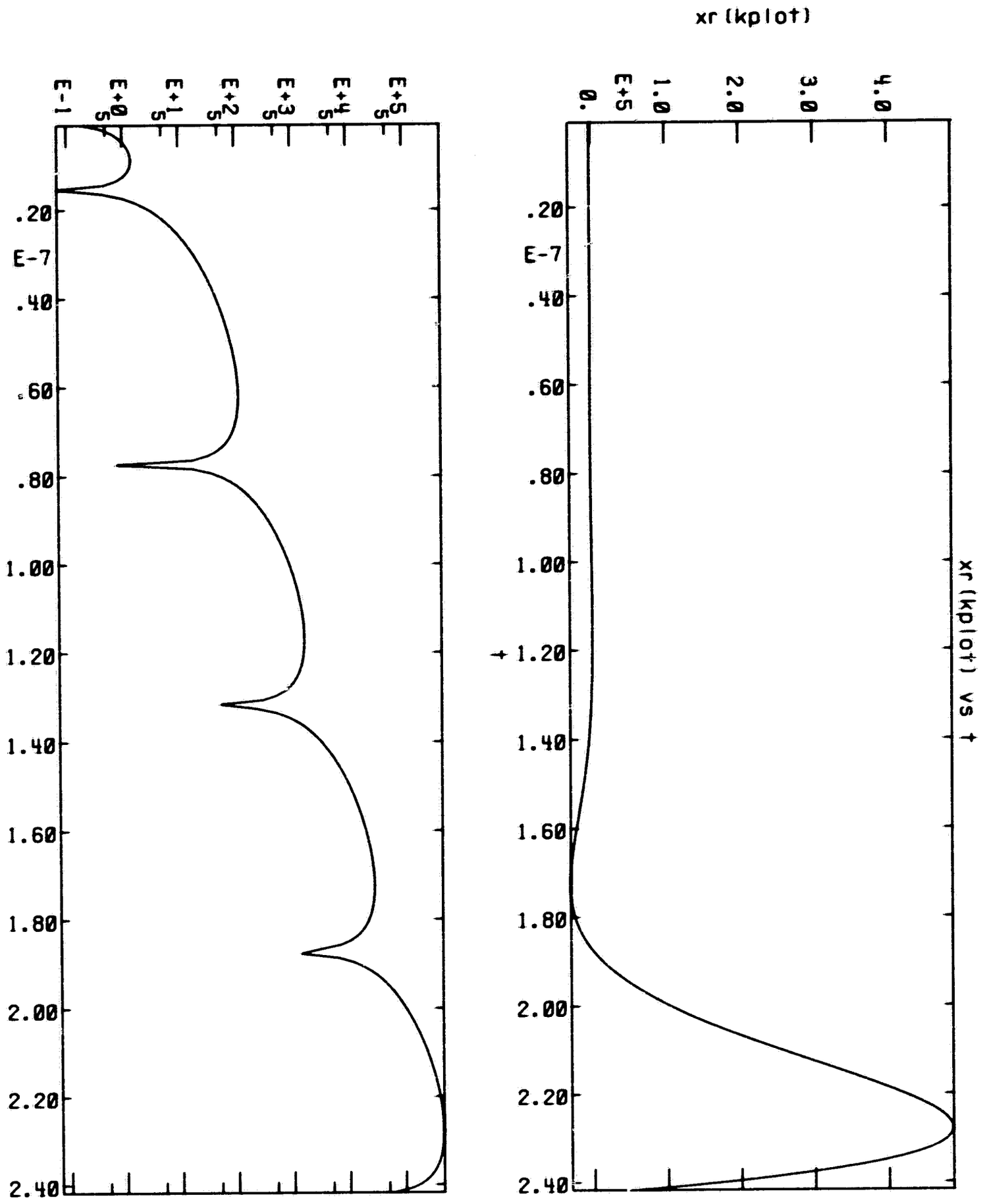

xr(z(17).r) vs r. each 20th time
xr(zp.r)
r
n: 10
n: 6
n: 7
n: 8
n: 9


xr(z(17).r) vs r. each 20th time
xr(zp.r)
r
n: 12
n: 11


xr(z(8),r) vs r. each 20th time
xr(zp,r)
r
n: 5
n: 4
n: 2
n: 3
n: 1
n: 9


xr(z(8),r) vs r. each 20th time
xr(zp,r)
r
n: 10
n: 6
n: 7
n: 8
n: 9
E+5


xr(z(8),r) vs r. each 20th time
xr(zp,r)
r
n: 12
n: 11
E+6


xr (kplot)
E-1
E+0 5
E+1 5
E+2 5
E+3 5
E+4 5
E+5 5
.20
E-7
.40
.60
.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
0.
E+5
1.0
2.0
3.0
4.0
xr (kplot) vs +

```
box  u21$

graflib:gcs12082kcs11122
      12   frames   plotted
15:59:3302/09/83c
dropfile  name  =  +xfleqtc
   87760  commandsissued
     187  records  in  job
family   number         1
fr80     driver   1.8
```