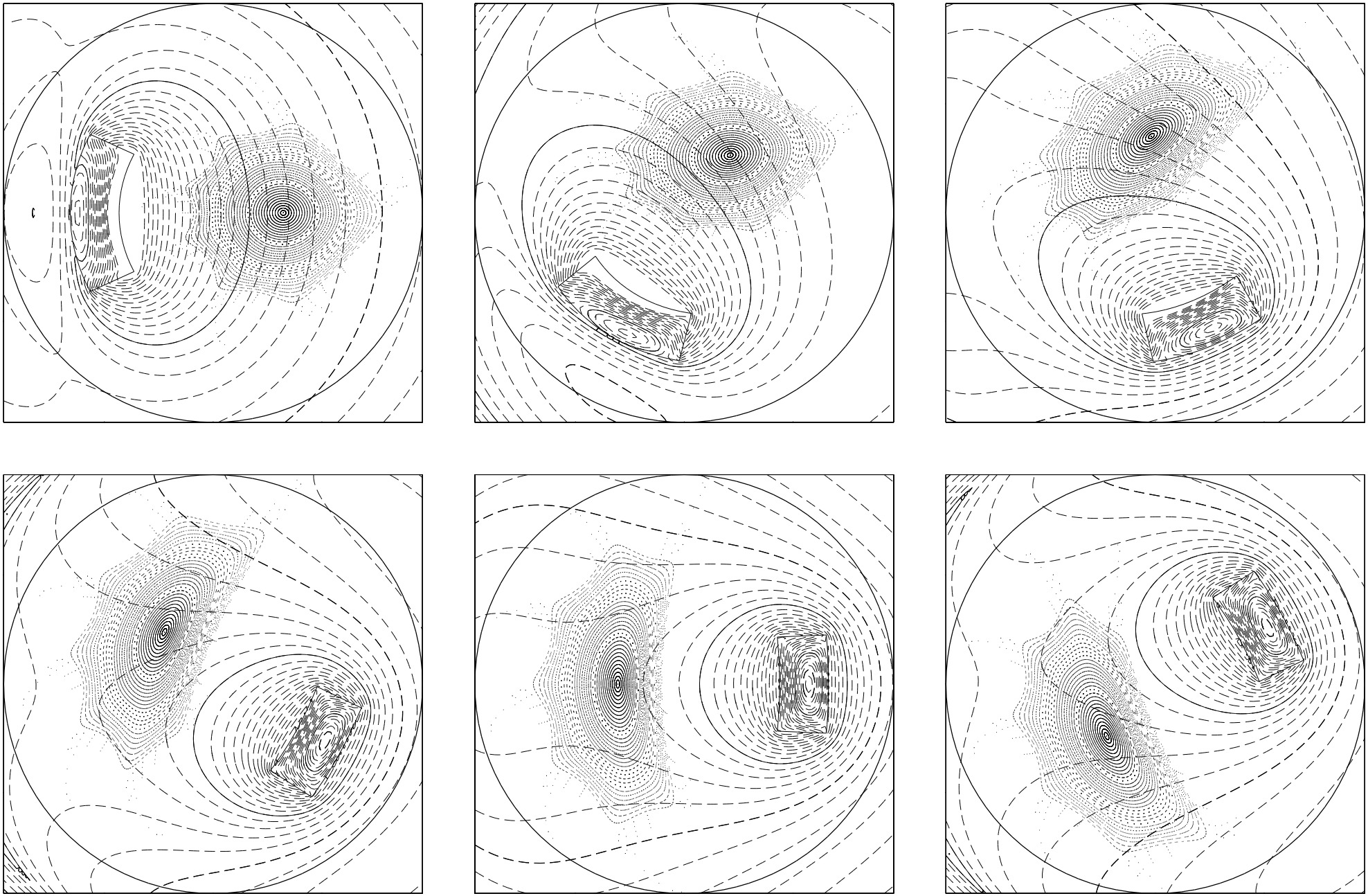
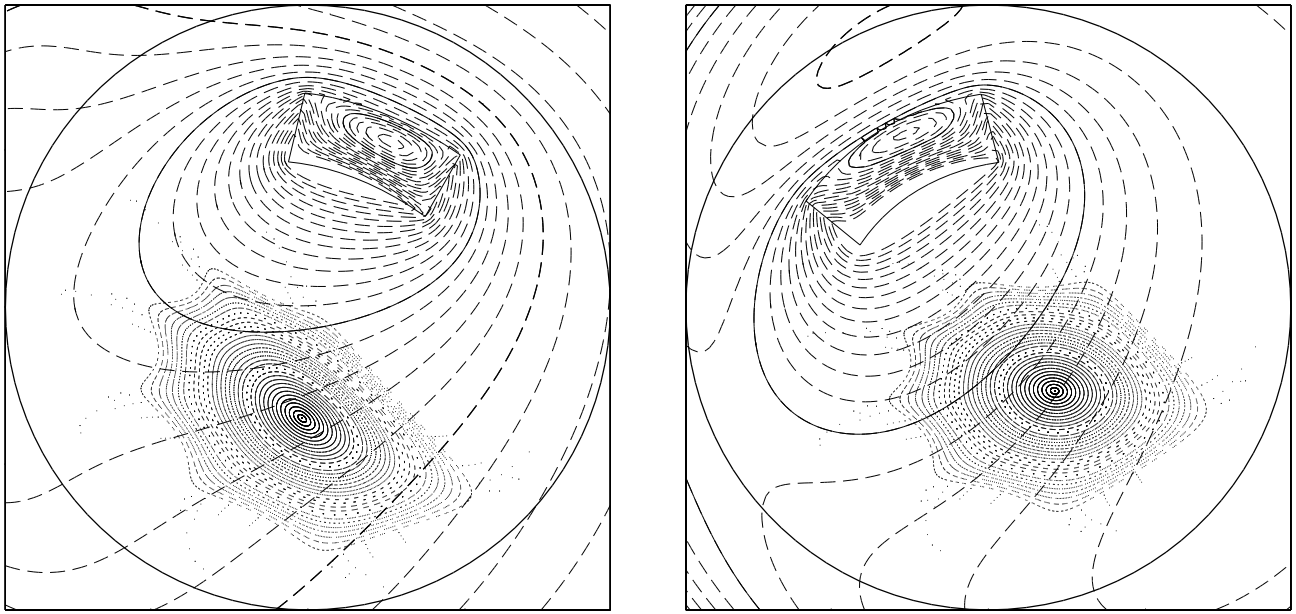
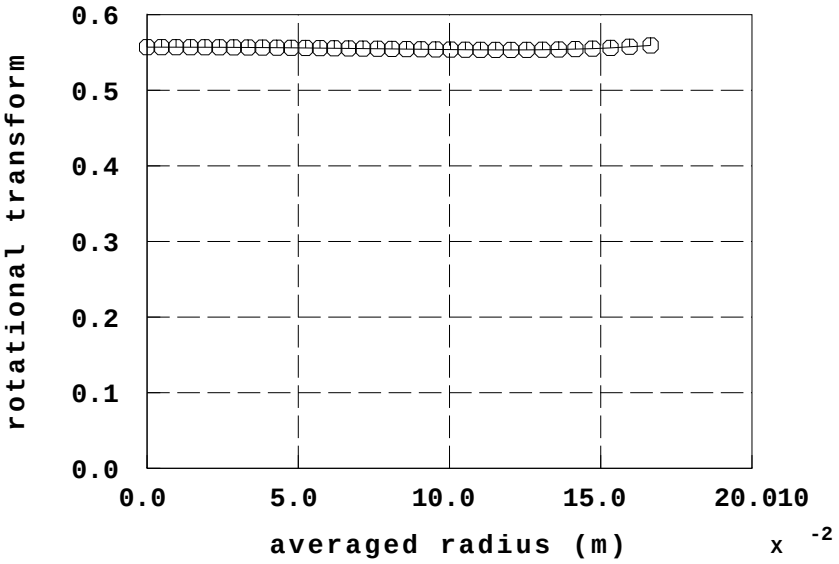
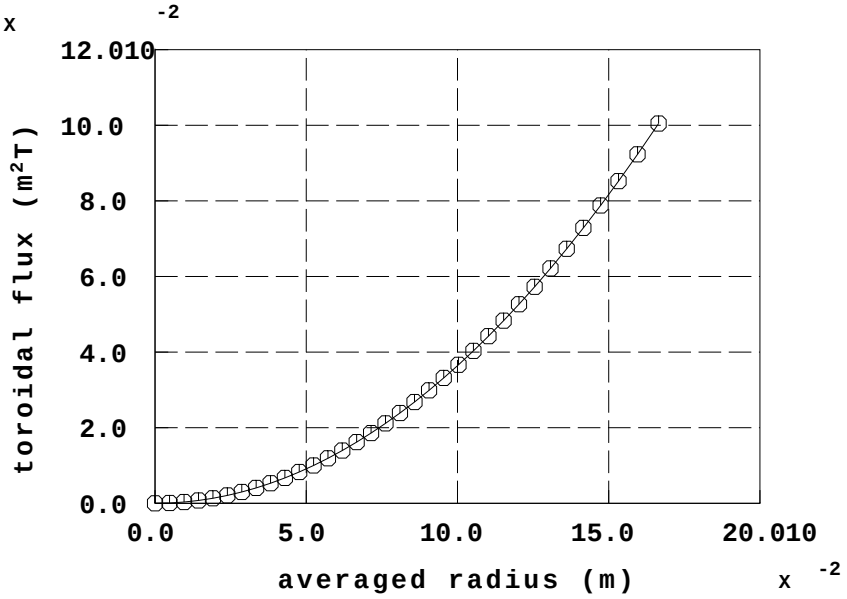
```
==<<Heliotron-J>>===
** input for KMAG-2.1 (Part II)
  calculate and store magnetic field data (mgf-files)
  for each magnetic field coil with 1MA(Turn) coil current.
  mgf-files will be used in the actual calculation (Part II)
  for the experimental situation.
  &nlinp1
    mgfile =  'H-J.mgf'
    lhsym  =  .true.,   ludsym =  .true.,
    lstre  =  .false.,  lstwr  =  .false.,  lvmec  =  .true.,
    lmgtrc =  .true.,   lorbt  =  .false.,
    lpinpt =  .true.,   lpbird =  .false.,  lmgout =  .true.,
    kisyu  =  1,
    ndsti  =  0,  nds3d  =  0,
    ndsto  =  0,  ndmgo  =  22,  ndvmc =  23,
    nthin  =  2,  nfail  =  5,   bmx   =  8.0000E+10,
    btcnt  =  0.0000E+00,  ityout =  3,
    rmgax  =  0.0000E+00,  fbvadj =  0.0000E+00,
    fbqbt0 =  0.0000E+00,  fbhbt0 =  0.0000E+00,
    alstar =  0.0000E+00,  astar1 =  0.0000E+00,
    rcnt   =  1.2000E+00,  rwid   =  3.8500E-01,
    nr     =  128,  ntor =  128,
    nnr    =  128,  nnt  =  128,
    eltor  = +1,    mtor =  4,
    nclh   =  1,    nclp =  10,  nclt  =  4,
    mtyp   =  12,
              12,     12,
              12,     12,
              12,     12,
              12,     12,
              12,     12,
              2,      2,      2,      2,
    ro     =  1.2000,
              3.5460,  3.5460,
              3.4542,  3.4542,
              3.3160,  3.3160,
              1.7000,  1.7000,
              0.4250,  0.4250,
              1.2500,  1.2500,  1.2500,  1.2500,
    zo     =  0.0000,
              1.1280, -1.1280,
              1.2720, -1.2720,
              1.2000, -1.2000,
              0.7800, -0.7800,
              0.1700, -0.1700,
              0.0000,  0.0000,  0.0000,  0.0000,
    npnt   =  2500,
              2500,   2500,
              2500,   2500,
              2500,   2500,
              2500,   2500,
              2500,   2500,
              2500,   2500,   2500,   2500,
    xw     =  0.0450,
              0.1740,  0.1740,
              0.0820,  0.0820,
              0.0360,  0.0360,
              0.1067,  0.1067,
              0.0657,  0.0657,
              0.0435,  0.07725,  0.07725,  0.0435,
    yw     =  0.0830,
```

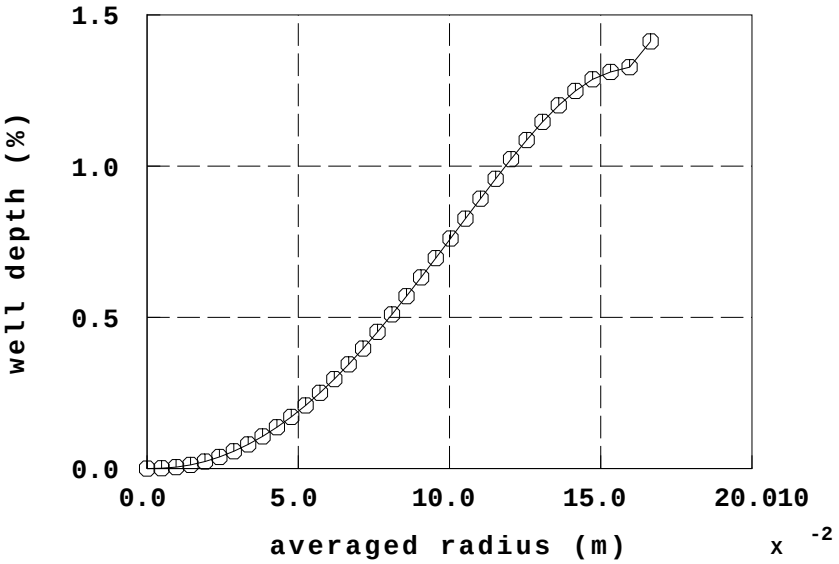
```
            0.0660,  0.0660,
            0.0660,  0.0660,
            0.0660,  0.0660,
            0.0772,  0.0772,
            0.1030,  0.1030,
            0.0584,  0.0198,  0.0198,  0.0584,
  cj     =  8.5440E+05,
           -4.2720E+05, -4.2720E+05,
           -2.1360E+05, -2.1360E+05,
           -1.0680E+05, -1.0680E+05,
            6.6240E+04,  6.6240E+04,
            3.6480E+05,  3.6480E+05,
            4.4400E+05,  1.7658E+05,  1.7658E+05,  4.4400E+05,
  al     =  0.2200,
  el     =  1.0000,
  dc     =  0.0000,
  dc2    =  0.0000,
  dl     = +0.4000,
  dl2    =  0.00000E+00,
  ncw    =  2
  cw(0,1)=  0.0450,  0.0830, -0.0450,
  co     = -3.141592654,
  to     = -0.785398163,
  altf   =  0.65100,  0.60775,  0.60775,  0.65100,
  eltf   =  1.0000E+00,  1.0000E+00,  1.0000E+00,  1.0000E+00,
  dctf   =  0.0000E+00,  0.0000E+00,  0.0000E+00,  0.0000E+00,
  dc2tf  =  0.0000E+00,  0.0000E+00,  0.0000E+00,  0.0000E+00,
  totf   =  0.19634954,  0.589048622,  0.981747704,  1.374446786,
&end
&nlinp2
  rnwid  =  1.5000E+00,  rlim  =  2.0000E+00,  ntrplt =  8,
  lbscl  =  .false.,     ispcf =  2,           bspcf  =  1.5000E+00,  1.0000E+
  bmaxc  =  3.0000E+00,  bminc =  0.0000E+00,  ihc    =  30,
  lwall  =  .true.,      rwall =  1.2000E+00,
  zwall  =  0.0000E+00,  awall =  3.8500E-01,
&end
&nlinp3
  drflx  =  5.0000E-03,  fsol =  1.0,  ktpp  =  400,
  rstart =  1.1366E+00,  zstart =  0.0000E+00,
  rax0   =  1.3000E+00,  zax0   =  0.0000E+00,
&end
```

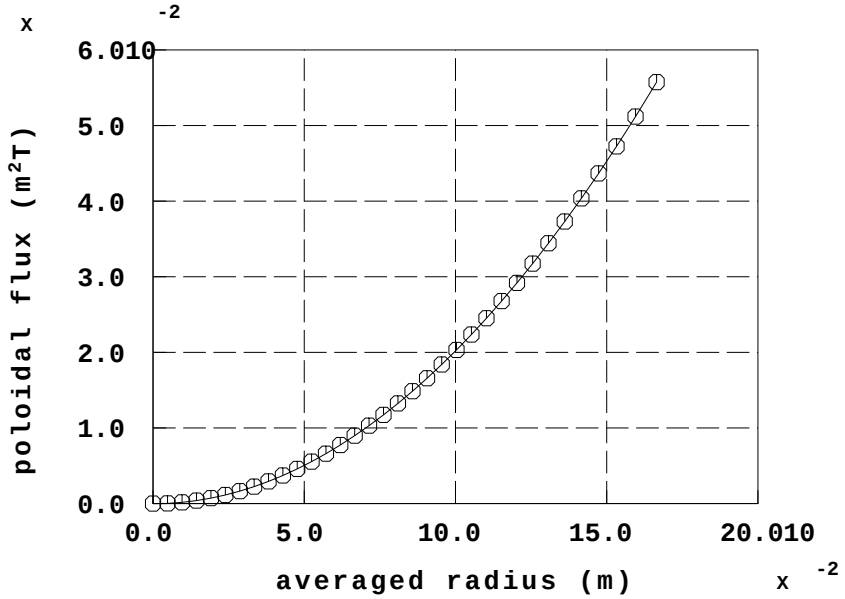


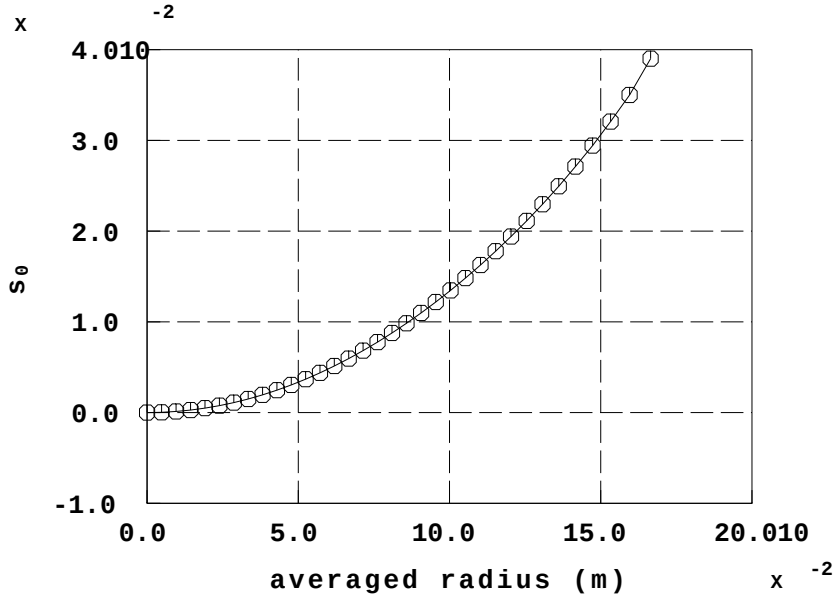


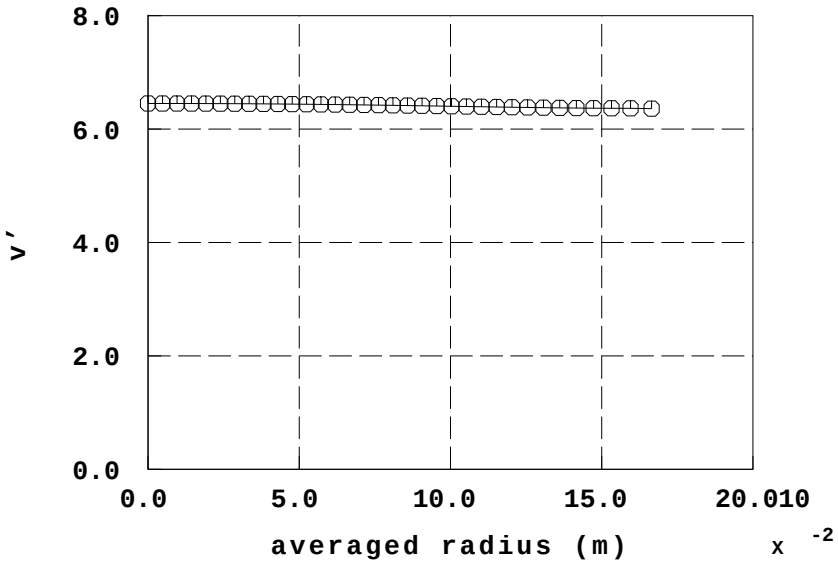

rotational transform
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0
5.0
10.0
15.0
20.010
x -2
averaged radius (m)

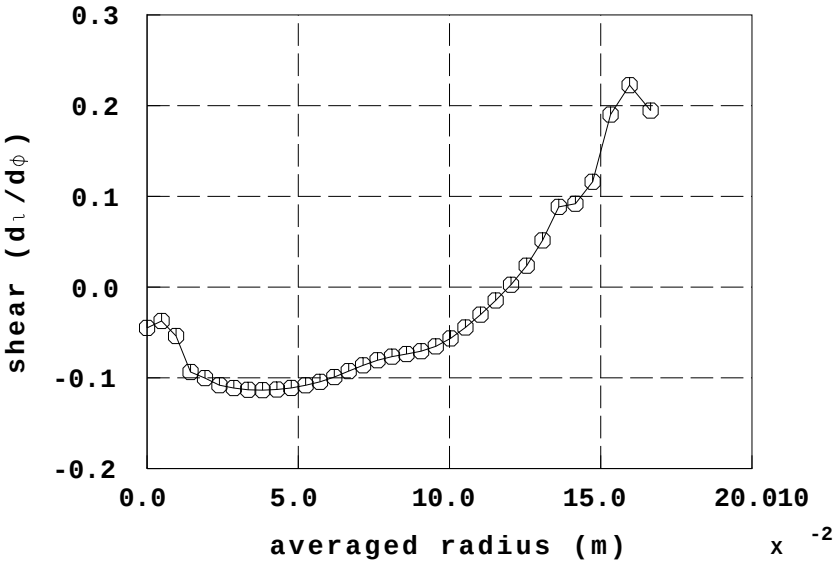

x -2
12.010
toroidal flux (m²T)
10.0
8.0
6.0
4.0
2.0
0.0
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2

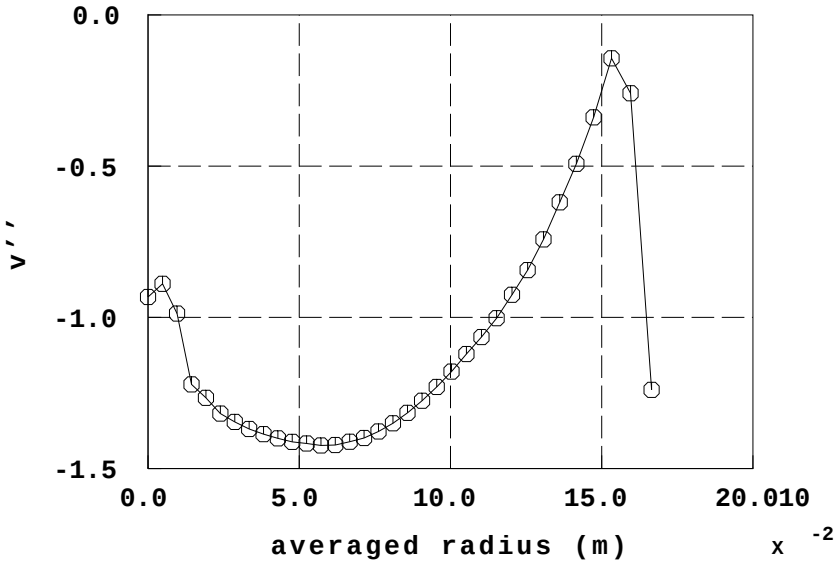

well depth (%)
1.5
1.0
0.5
0.0
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2


x -2
6.010
poloidal flux (m²T)
5.0
4.0
3.0
2.0
1.0
0.0
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2


x -2
4.010
3.0
2.0
1.0
0.0
-1.0
s_0
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2


8.0
6.0
4.0
2.0
0.0
v'
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2


0.3
0.2
0.1
0.0
-0.1
-0.2
shear ($d_l/d\phi$)
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2


0.0
-0.5
-1.0
-1.5
v''
0.0
5.0
10.0
15.0
20.010
averaged radius (m)
x -2