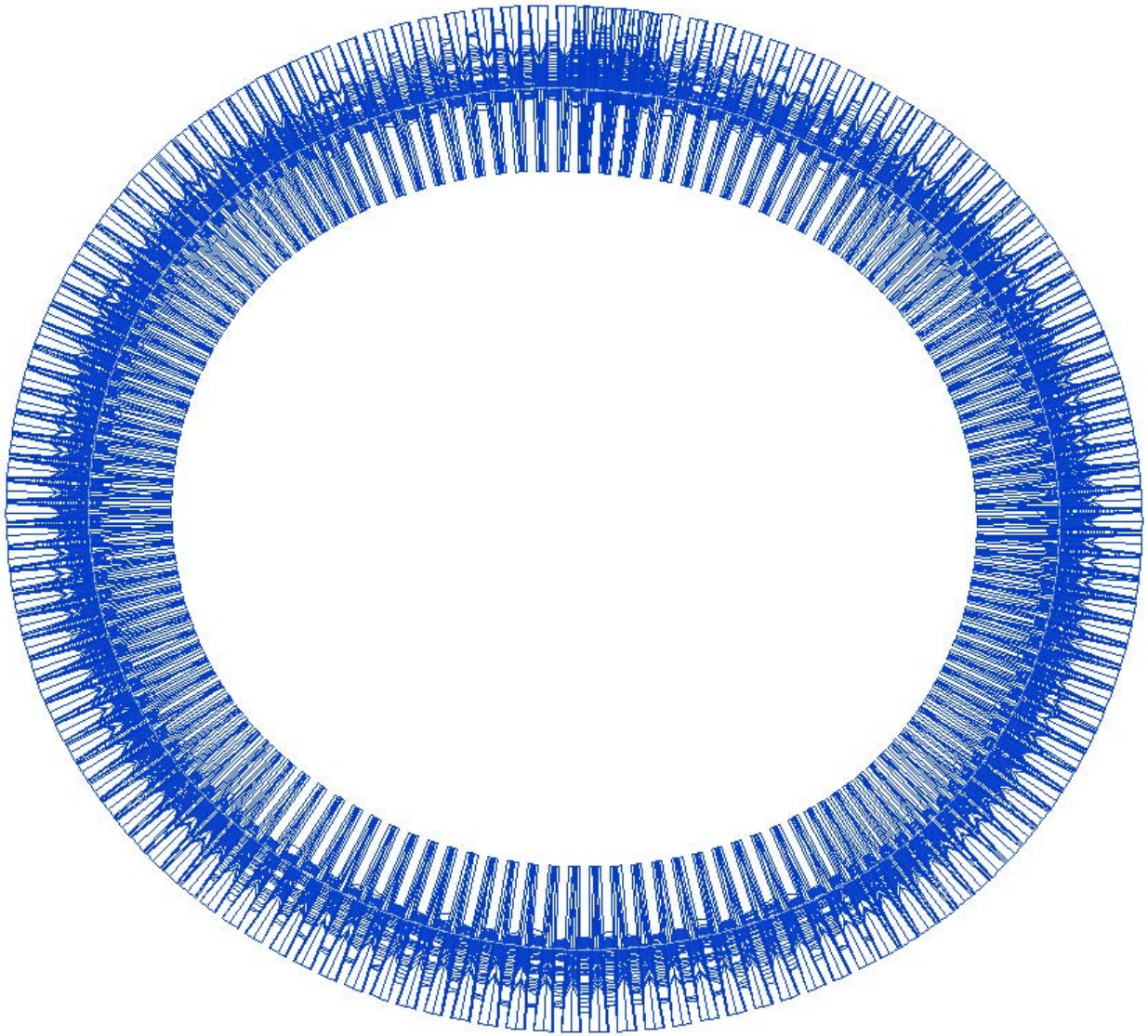
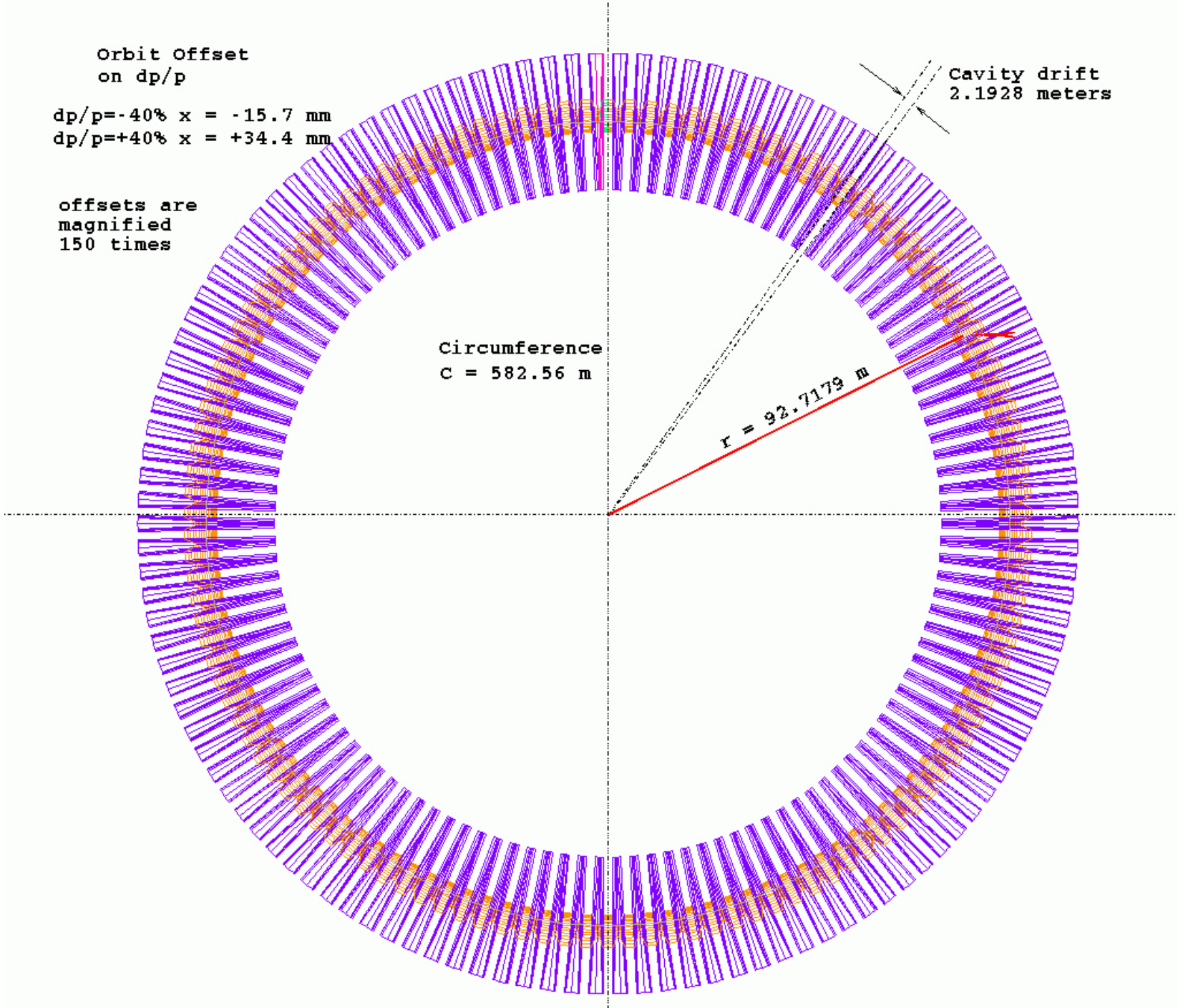
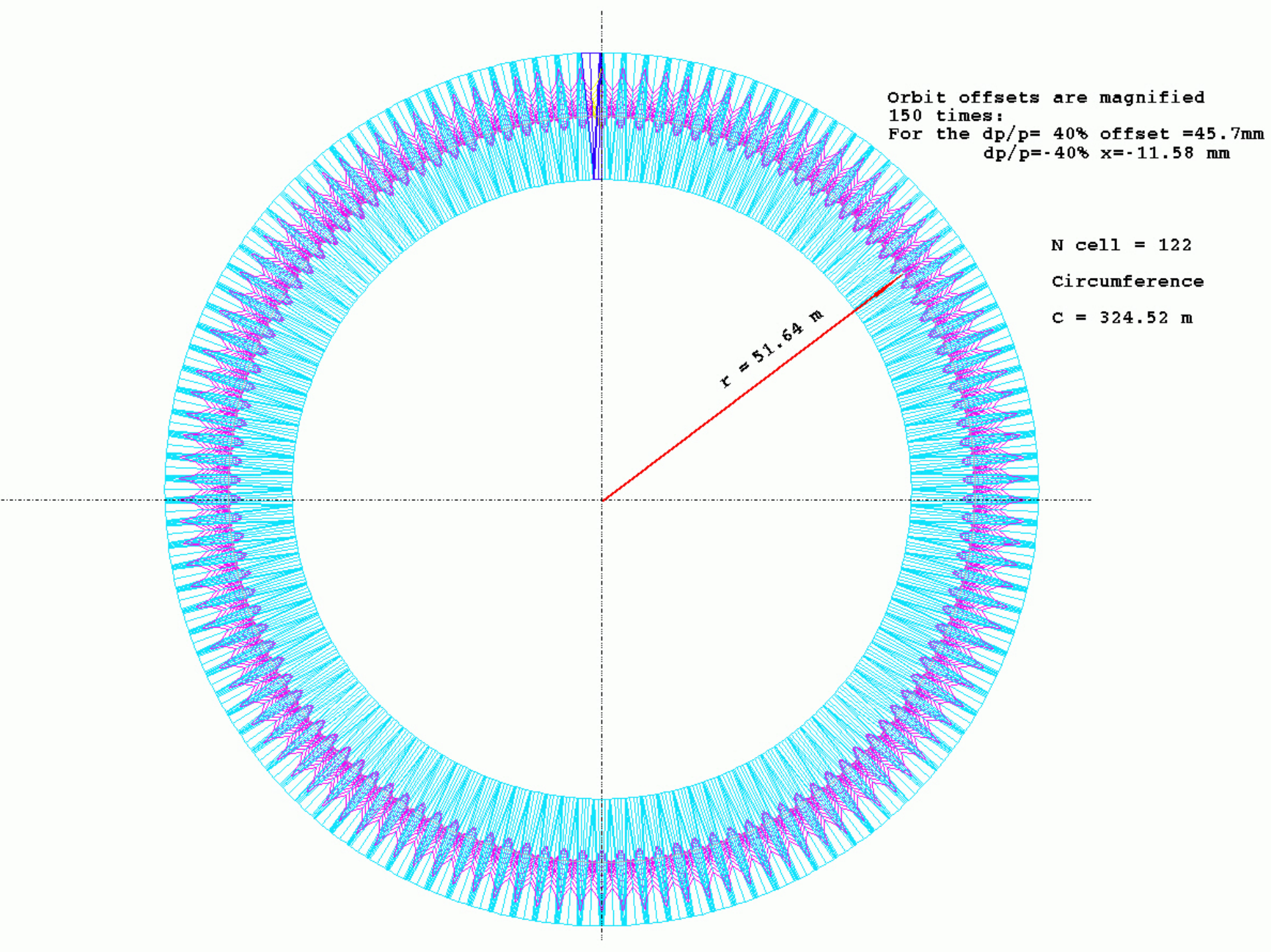
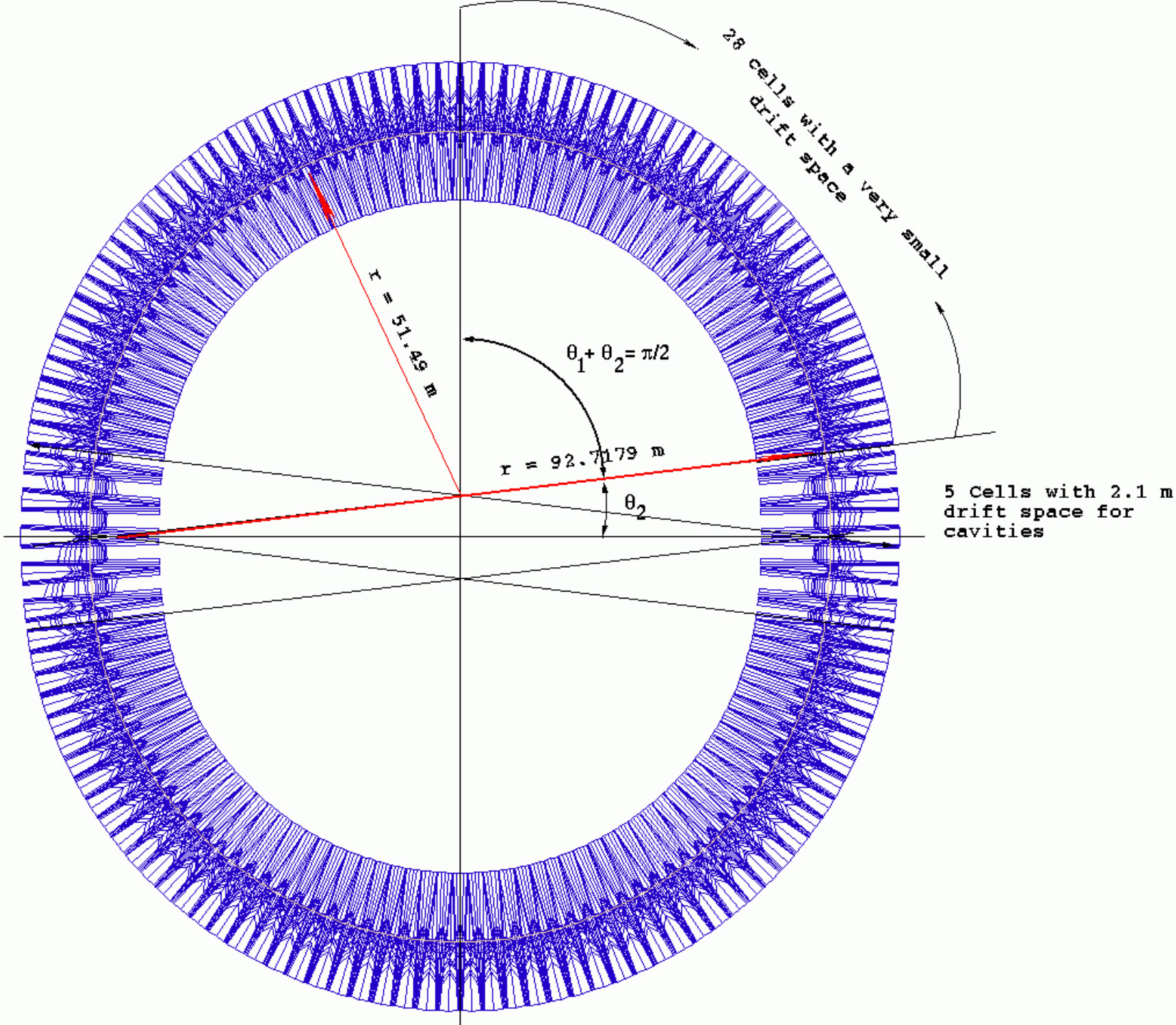
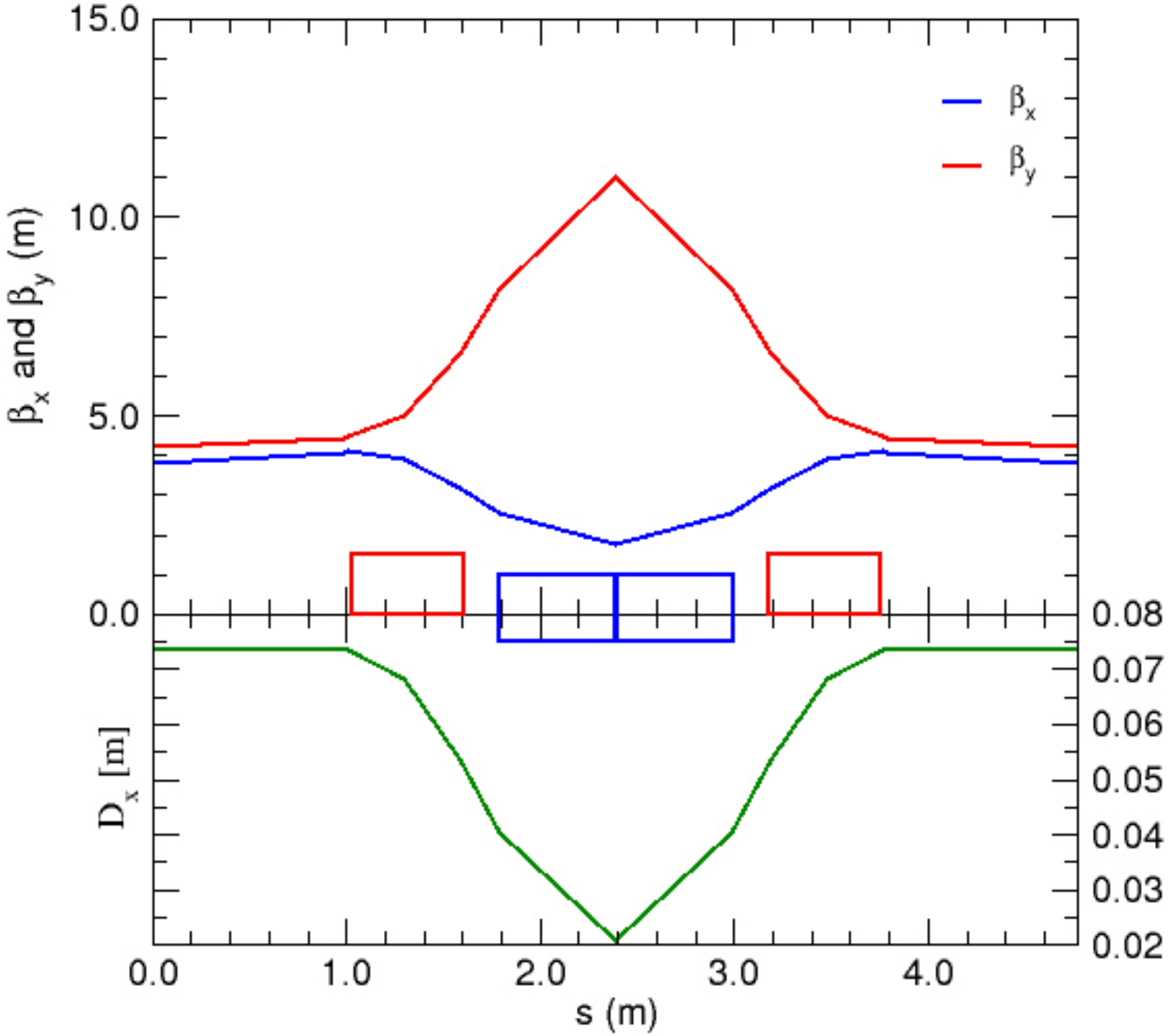
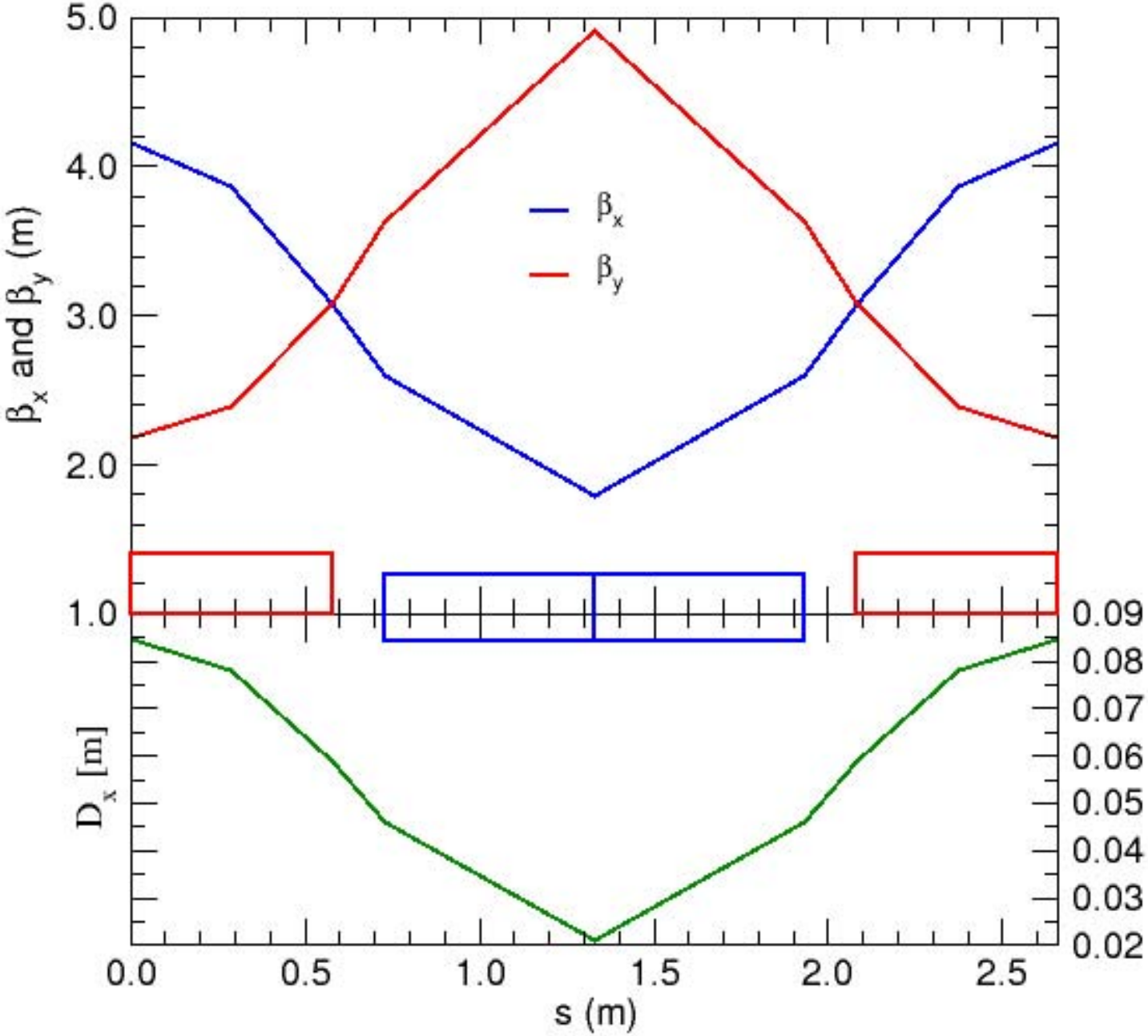


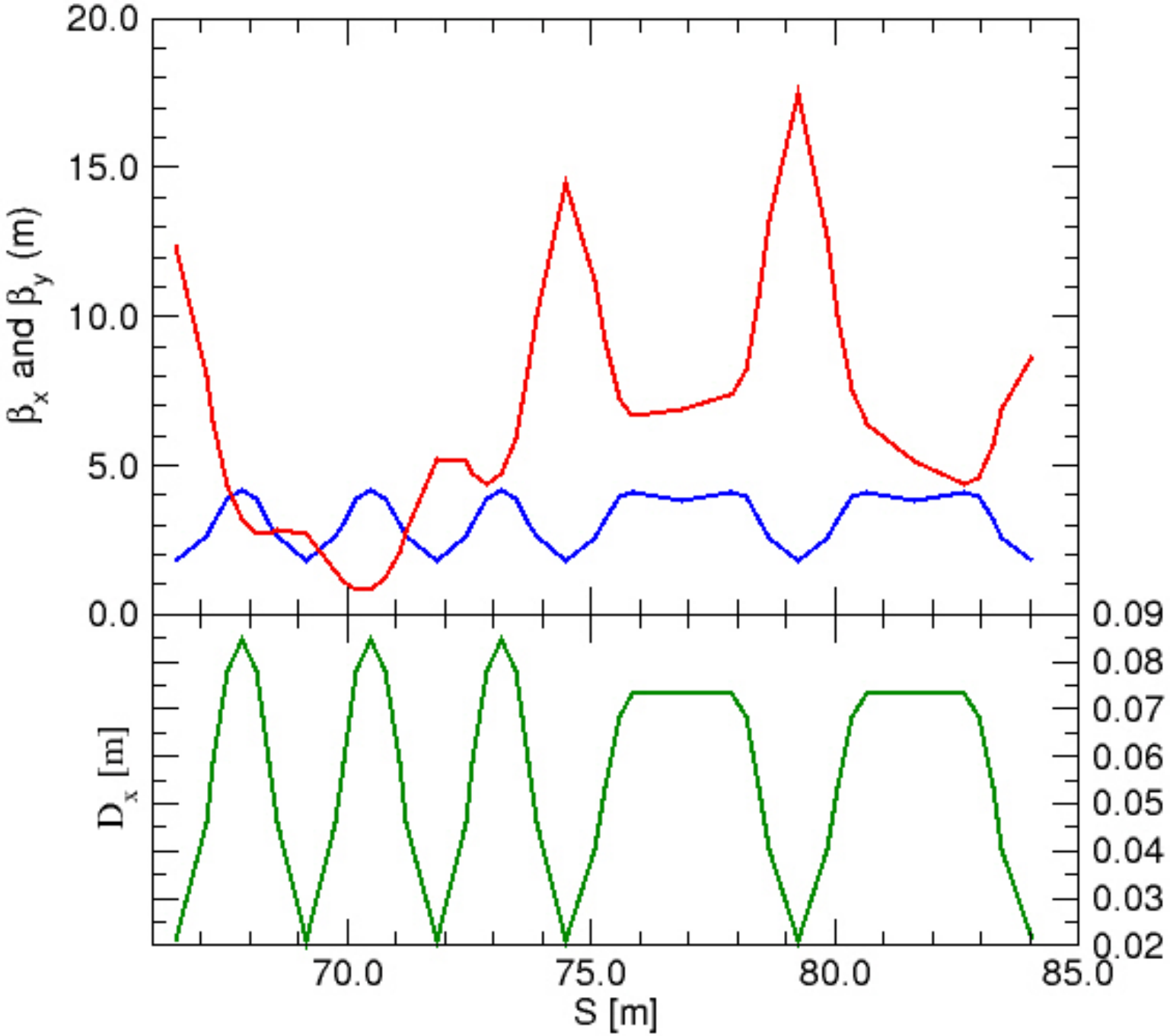

Orbit Offset
on dp/p
dp/p=-40% x = -15.7 mm
dp/p=+40% x = +34.4 mm
offsets are
magnified
150 times
Cavity drift
2.1928 meters
Circumference
C = 582.56 m
r = 92.7179 m

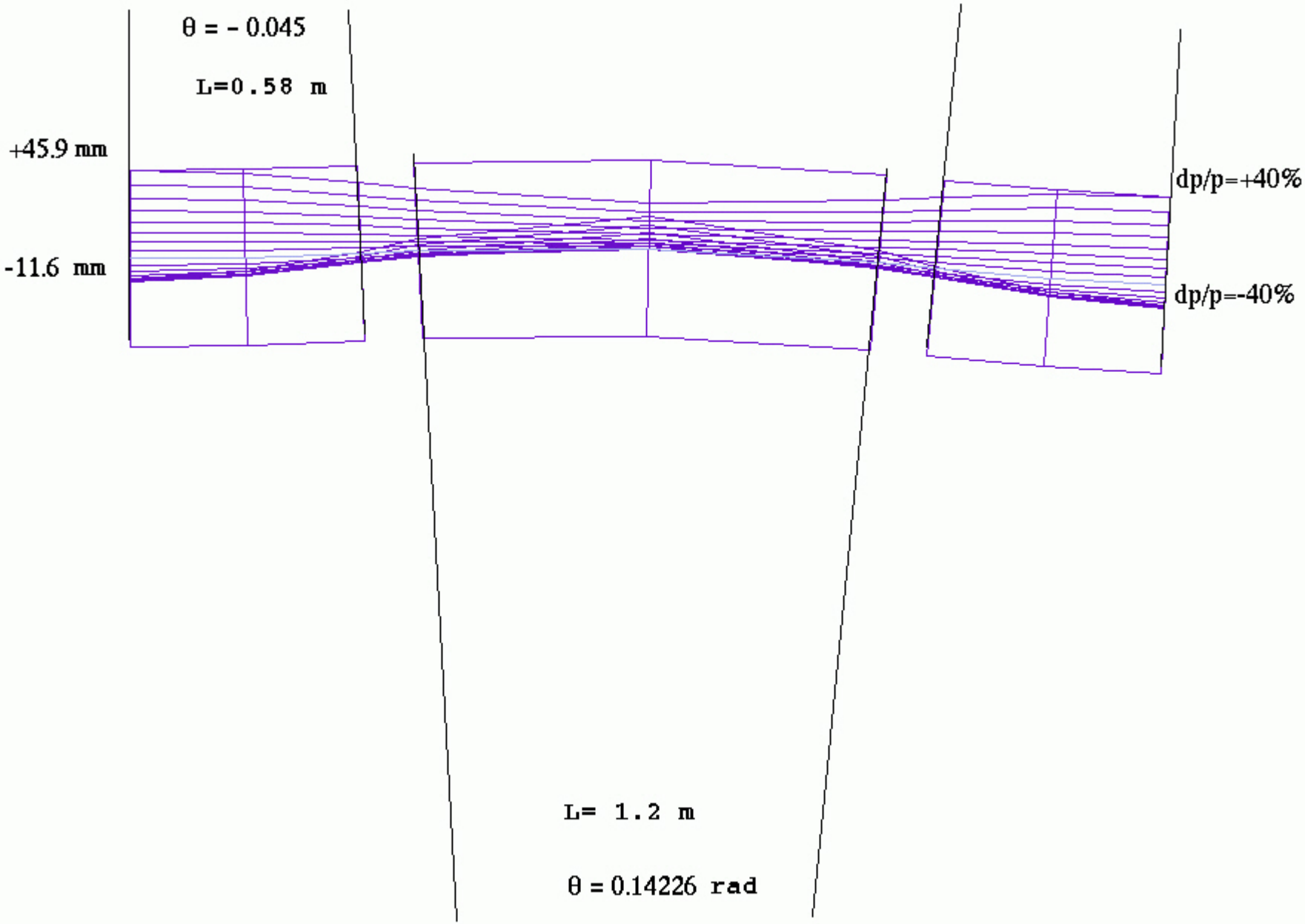

Orbit offsets are magnified
150 times:
For the dp/p= 40% offset =45.7mm
dp/p=-40% x=-11.58 mm
N cell = 122
Circumference
C = 324.52 m
r = 51.64 m


28 cells with a very small drift space
r = 51.49 m
$\theta_1 + \theta_2 = \pi/2$
r = 92.7179 m
θ_2
5 Cells with 2.1 m drift space for cavities


15.0
10.0
5.0
0.0
β_x and β_y (m)
β_x
β_y
0.08
0.07
0.06
0.05
0.04
0.03
0.02
D_x [m]
0.0
1.0
2.0
3.0
4.0
s (m)


5.0
4.0
3.0
2.0
1.0
β_x and β_y (m)
β_x
β_y
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
D_x [m]
0.0
0.5
1.0
1.5
2.0
2.5
s (m)


20.0
15.0
10.0
5.0
0.0
β_x and β_y (m)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
D_x [m]
70.0
75.0
80.0
85.0
S [m]


θ = - 0.045
L=0.58 m
+45.9 mm
-11.6 mm
dp/p=+40%
dp/p=-40%
L= 1.2 m
θ = 0.14226 rad

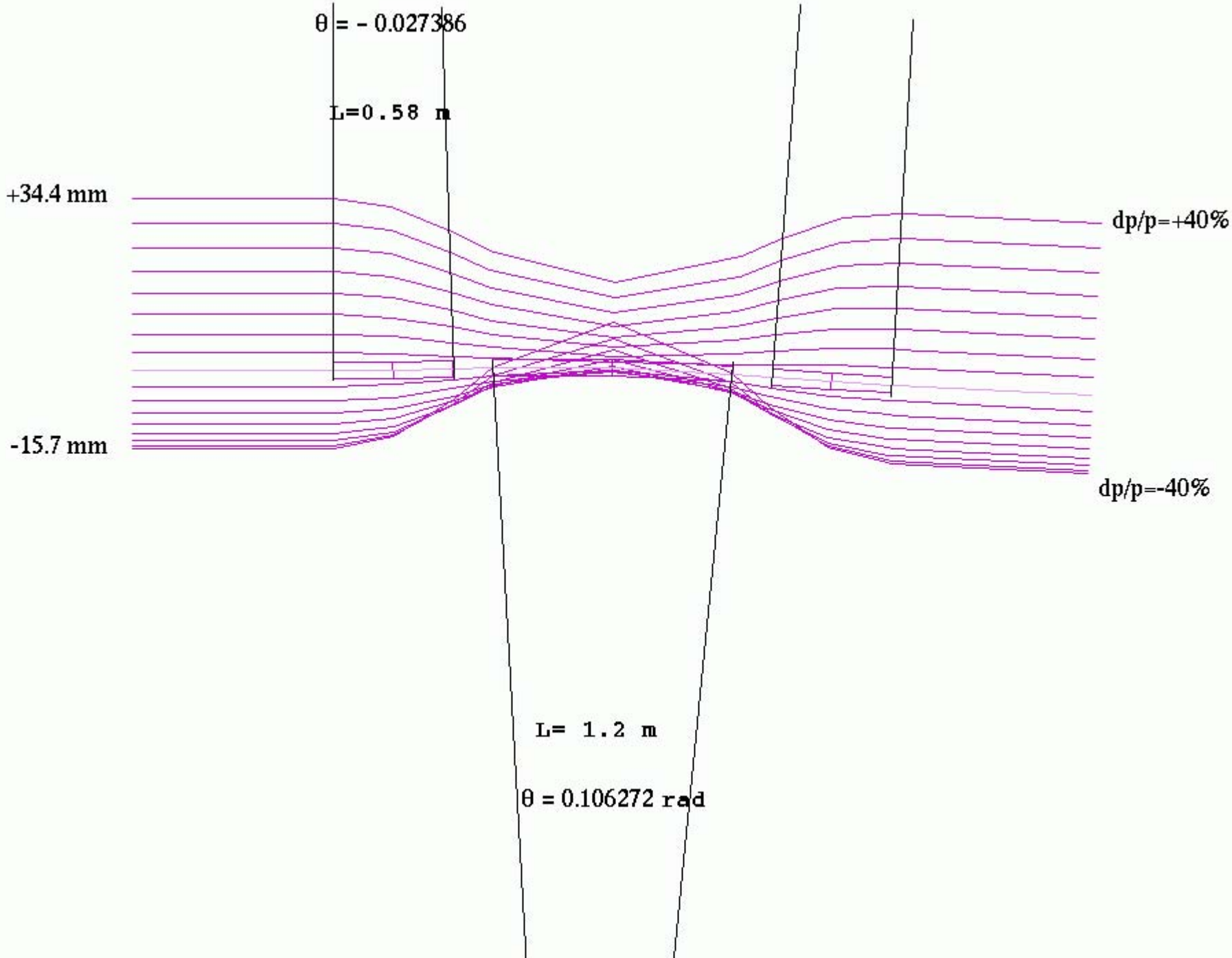
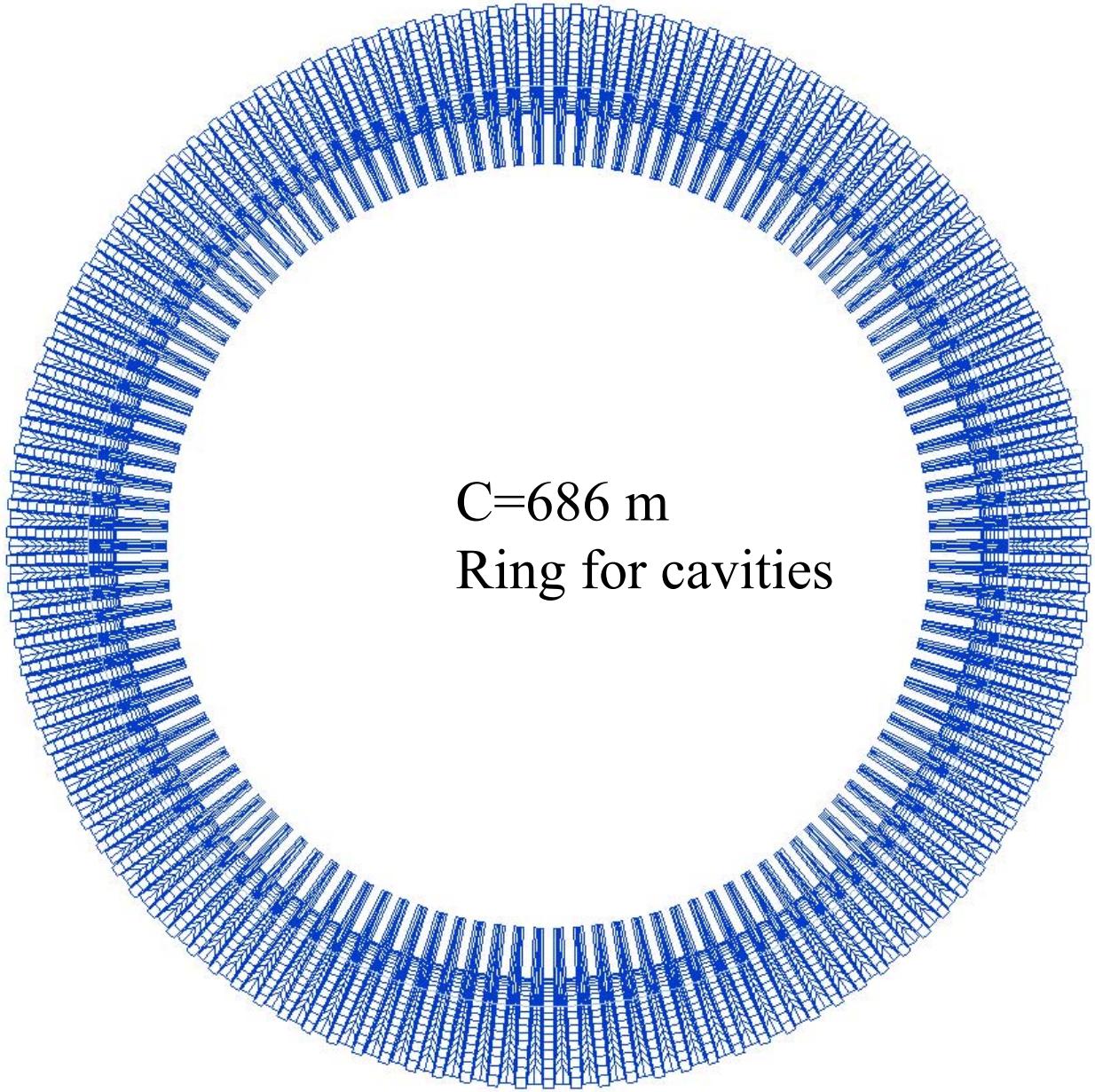
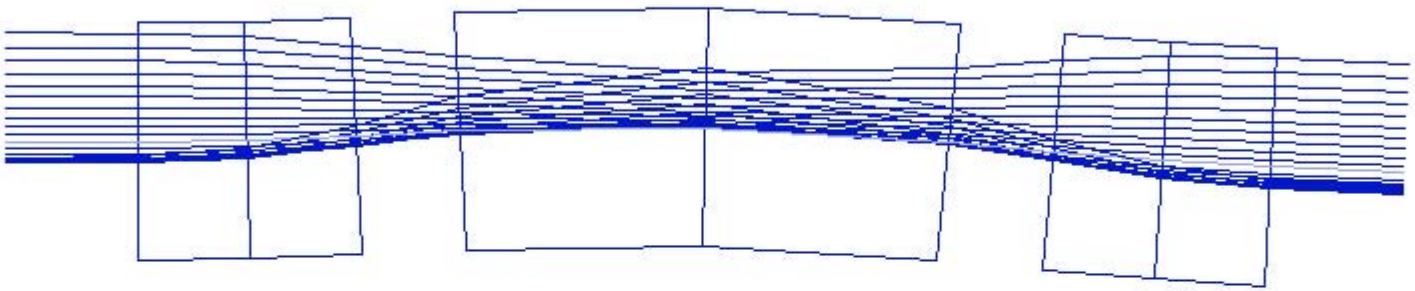
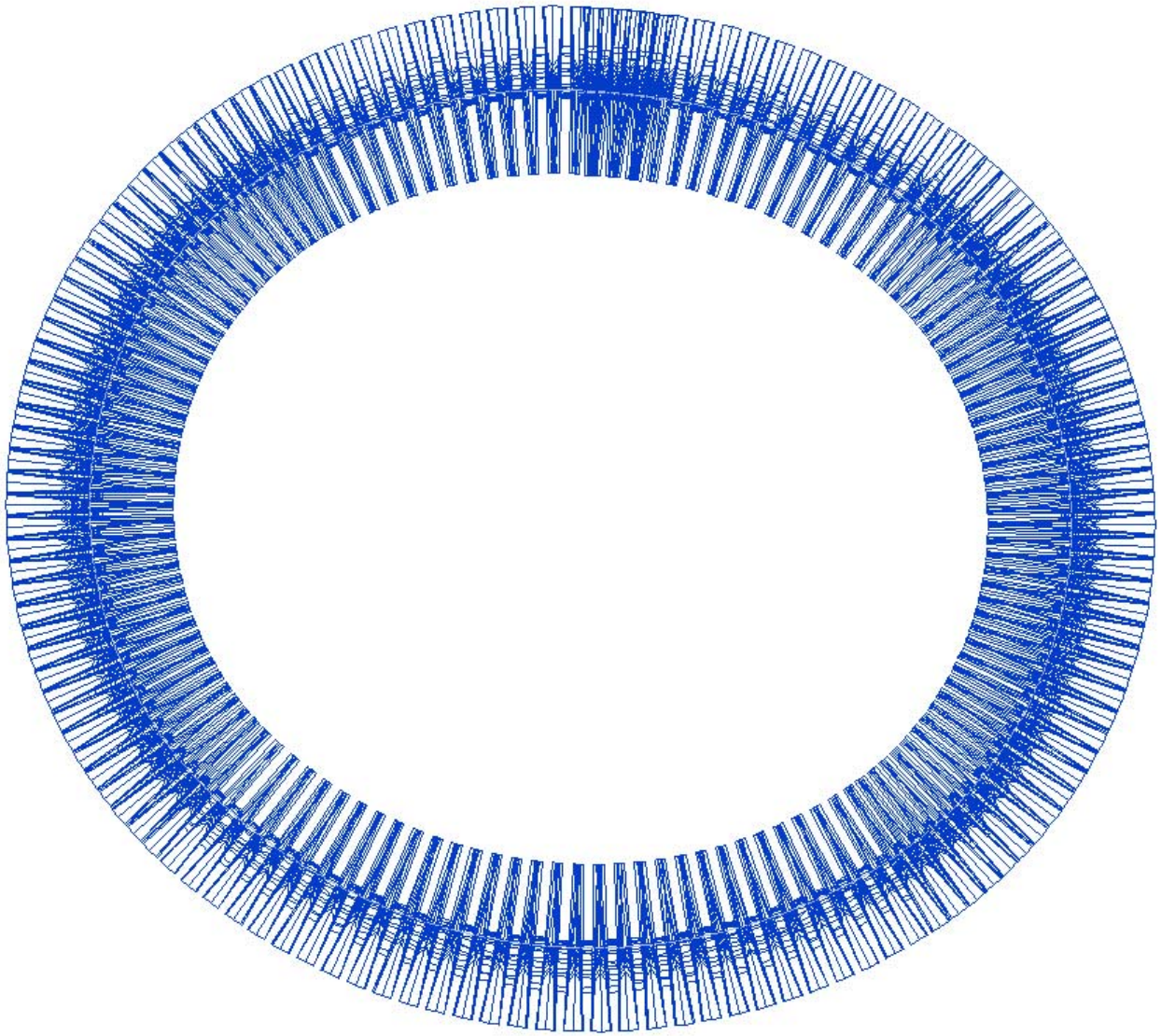
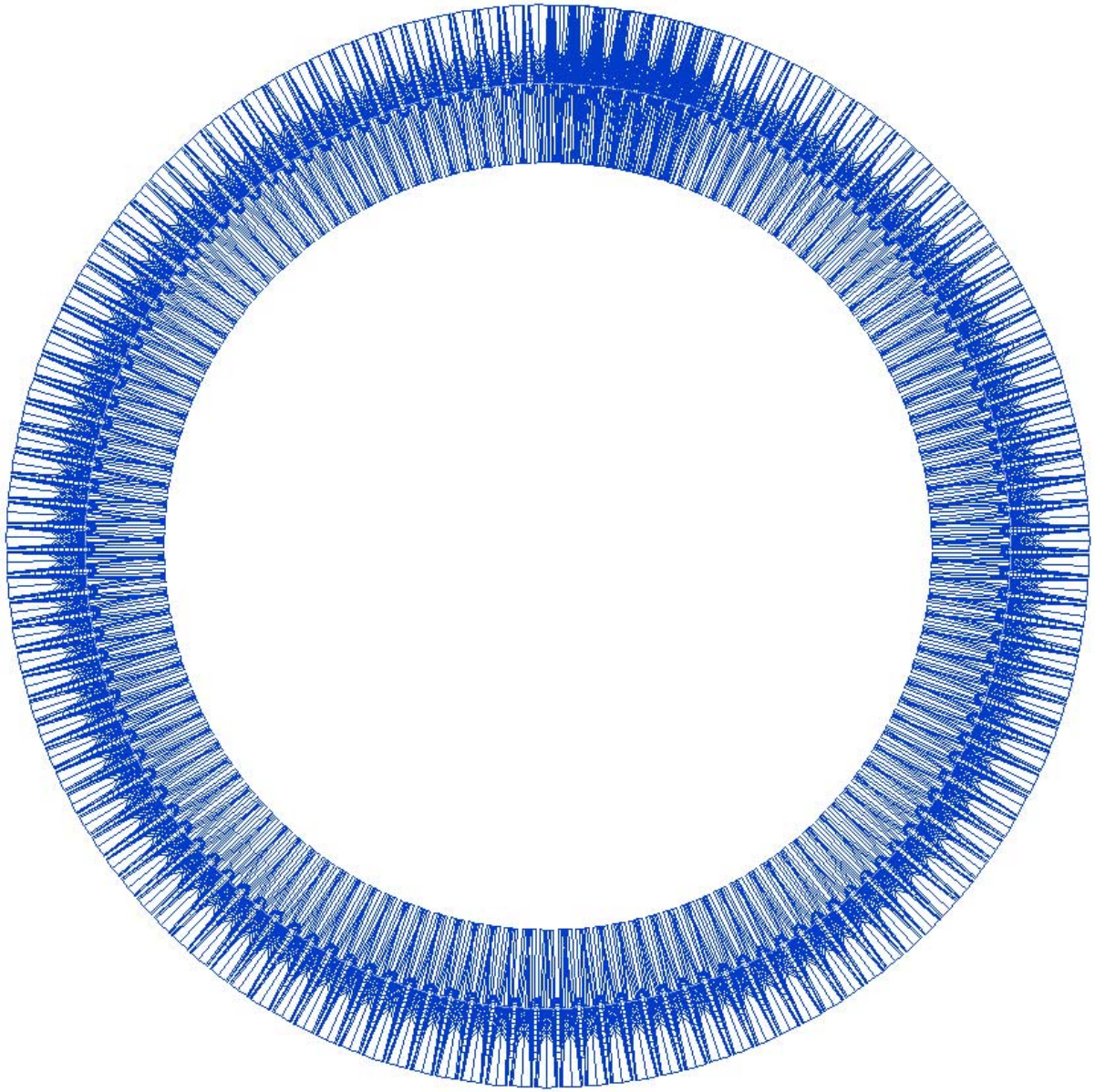

θ = - 0.027386
L=0.58 m
+34.4 mm
-15.7 mm
dp/p=+40%
dp/p=-40%
L= 1.2 m
θ = 0.106272 rad

Table 1: Magnet Specifications

Margin	**L(m)**	**B(T)**	**G(T/m)**	**A_x(mm)**
BD	1.2	4.22	-37.82	+-11
BF	0.58	-2.25	47.51	-15, 34
BD2	1.2	5.65	-40.2	+-11
BF2	0.58	3.78	43.39	-11.44

Orbit offsets
Magnified
150 times