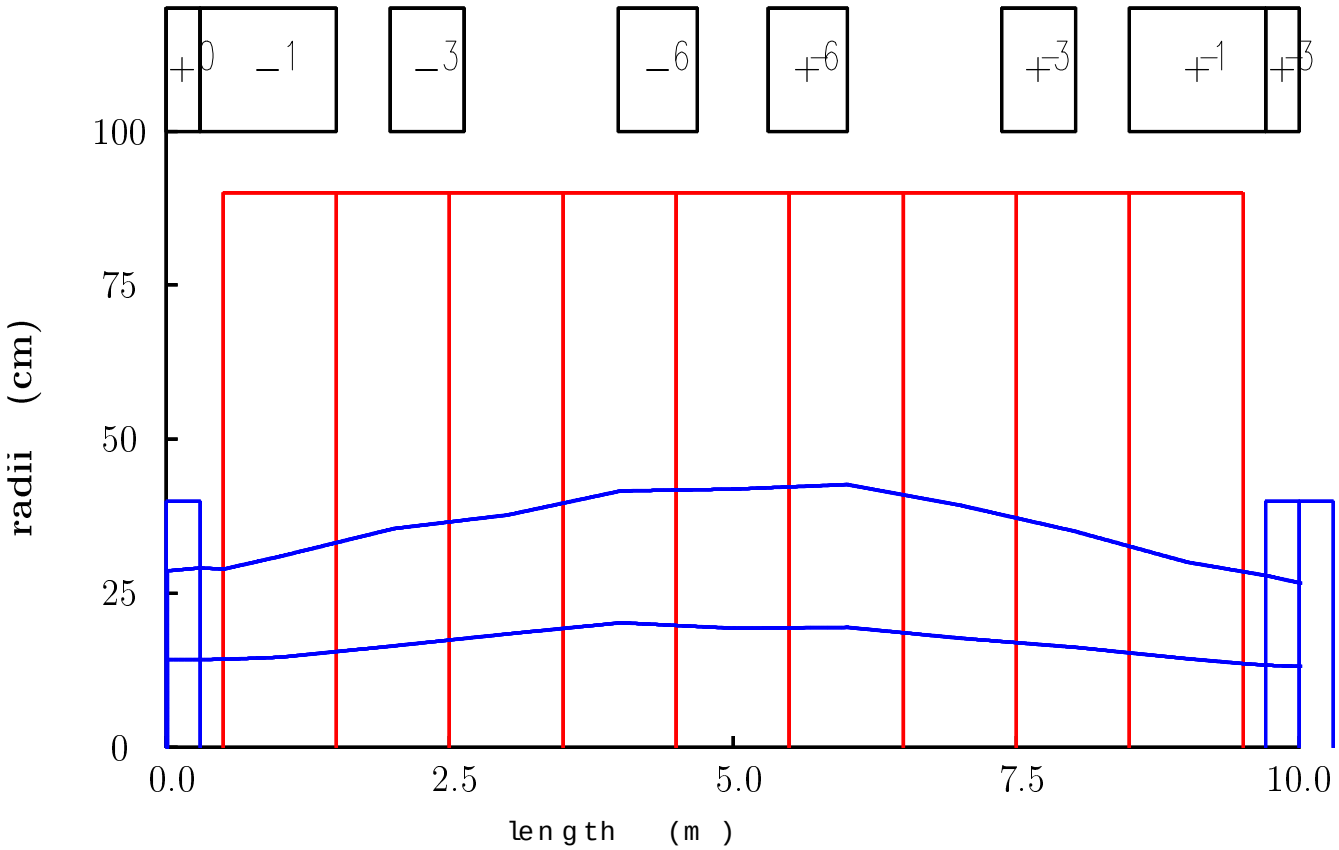
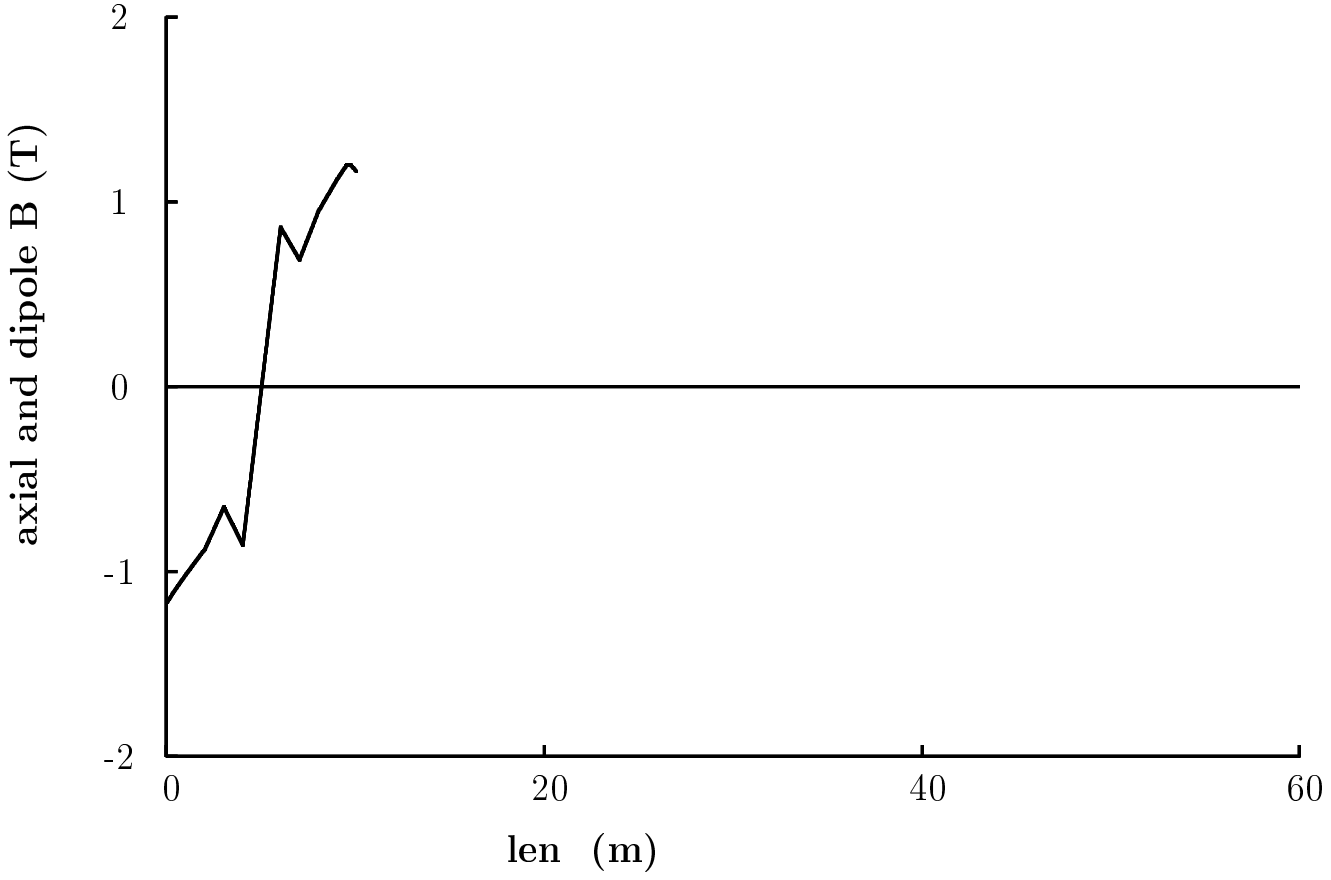
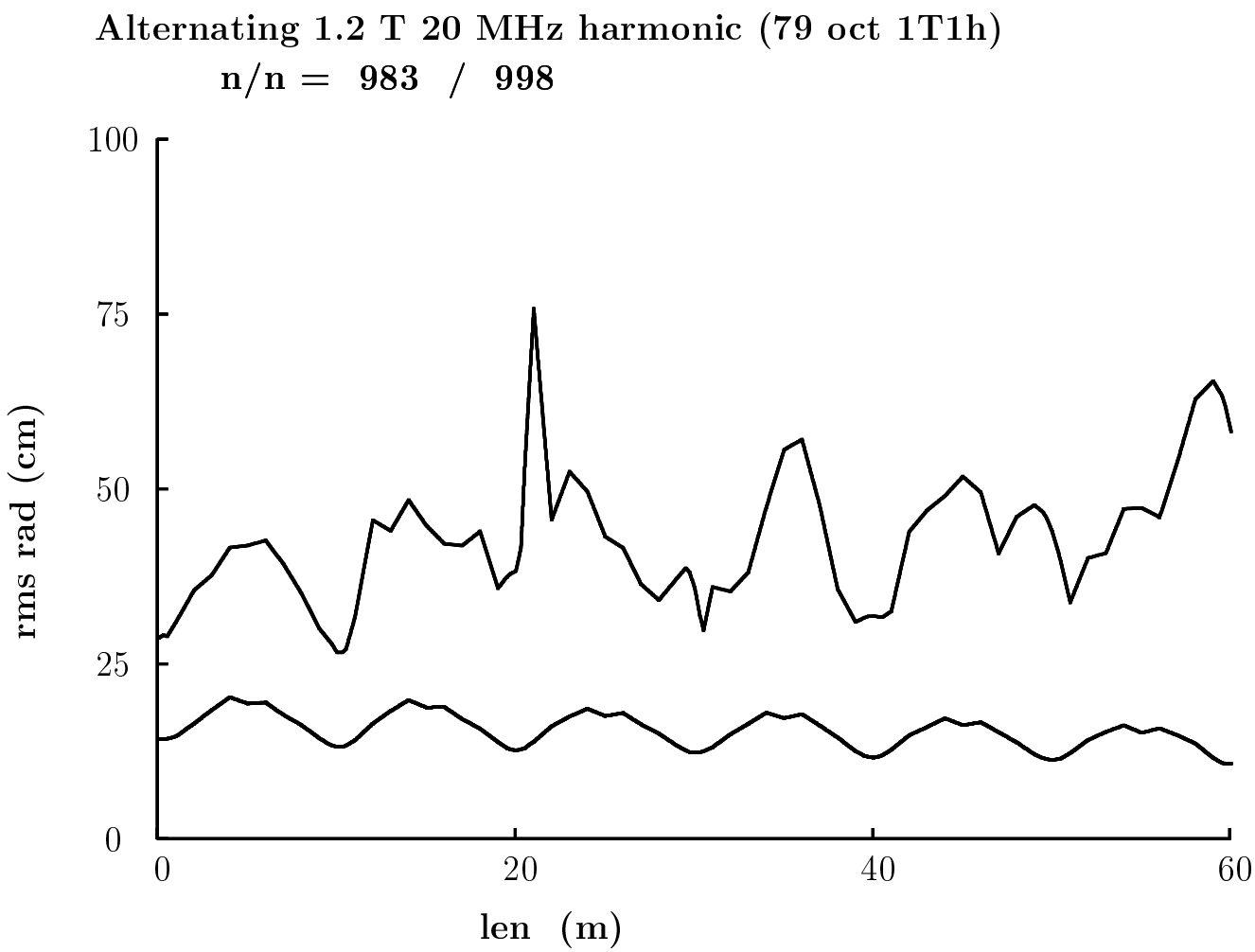
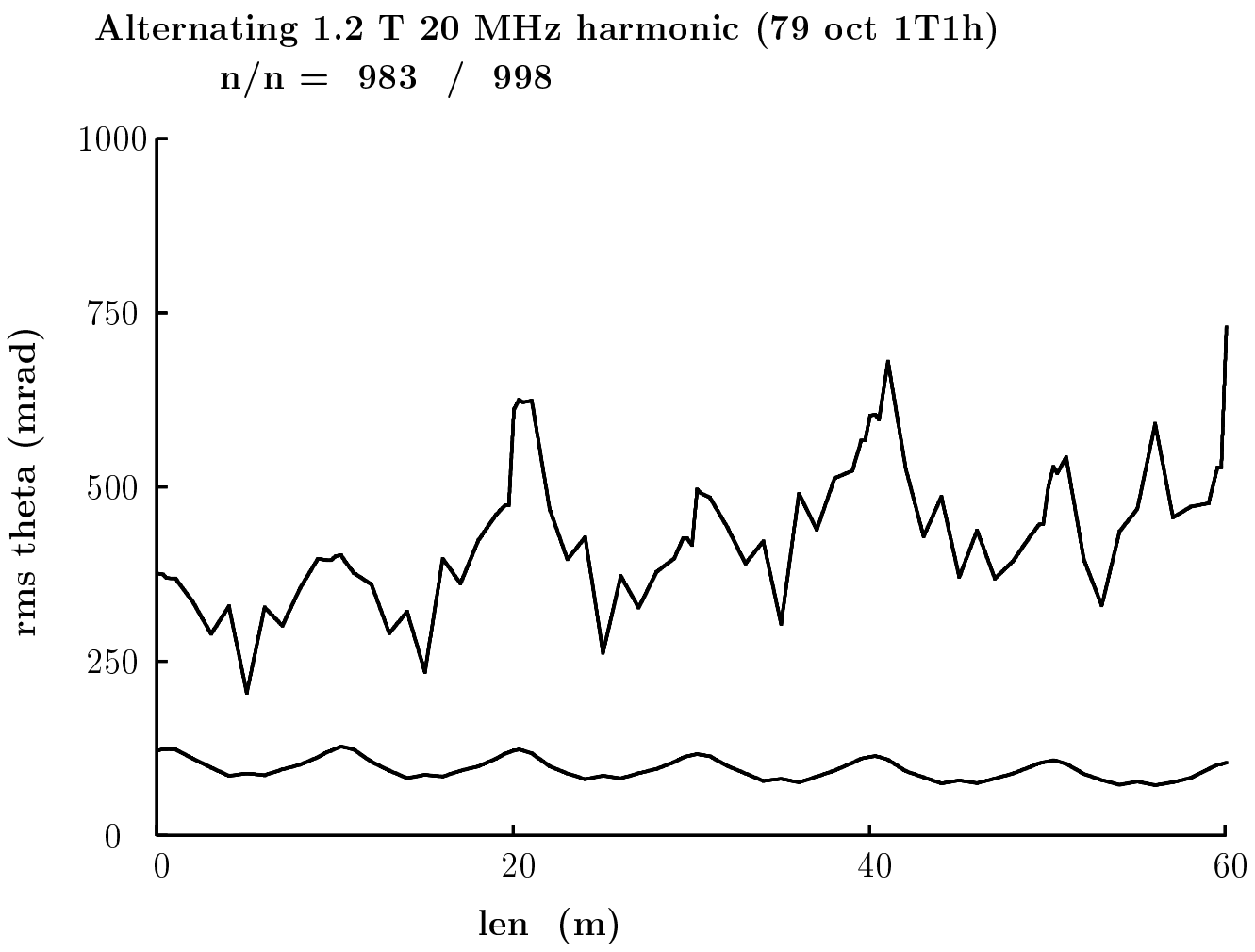
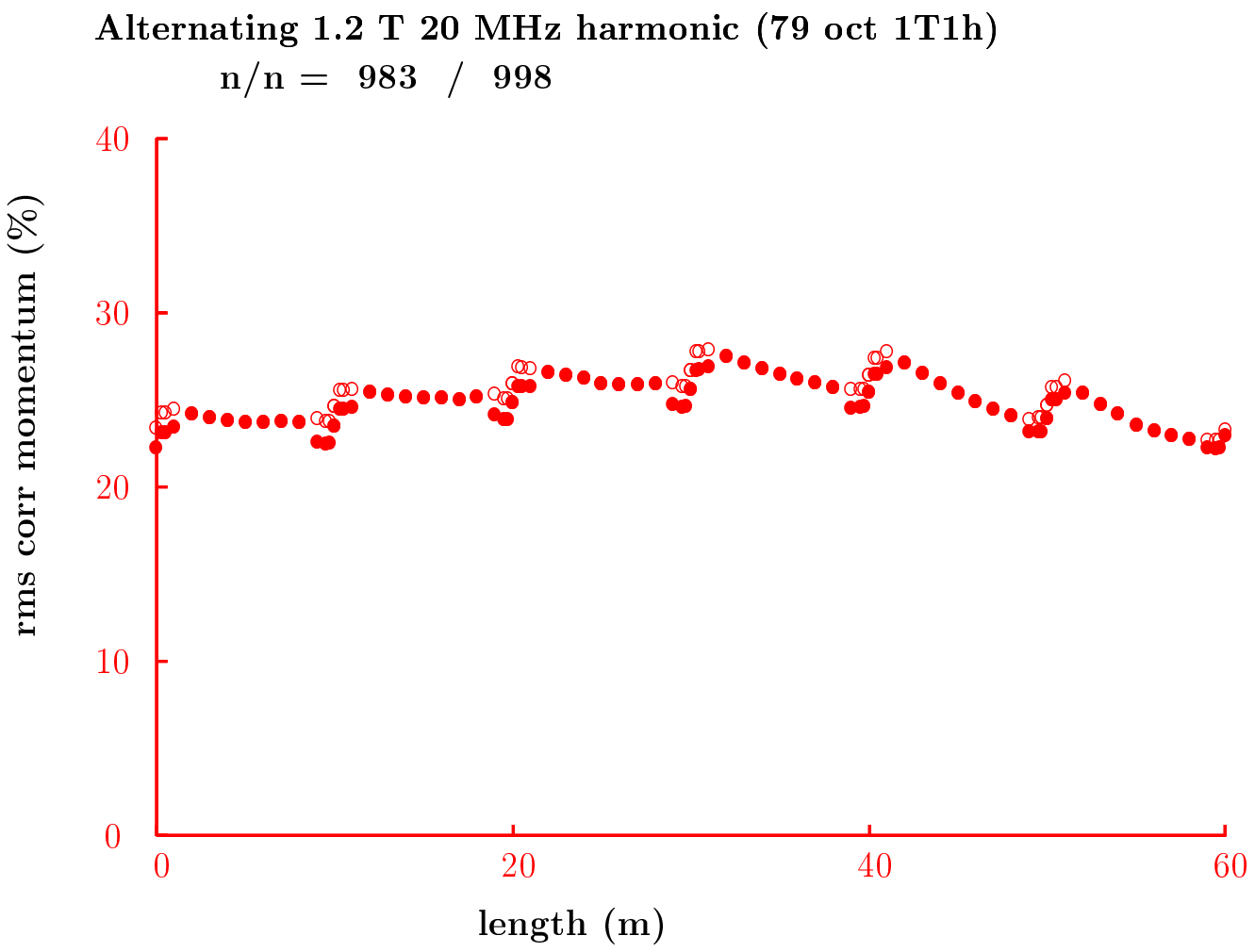

+0
−1
−3
−6
+6
+3
+1
+3
100
75
50
25
0
radii (cm)
0.0
2.5
5.0
7.5
10.0
length (m)

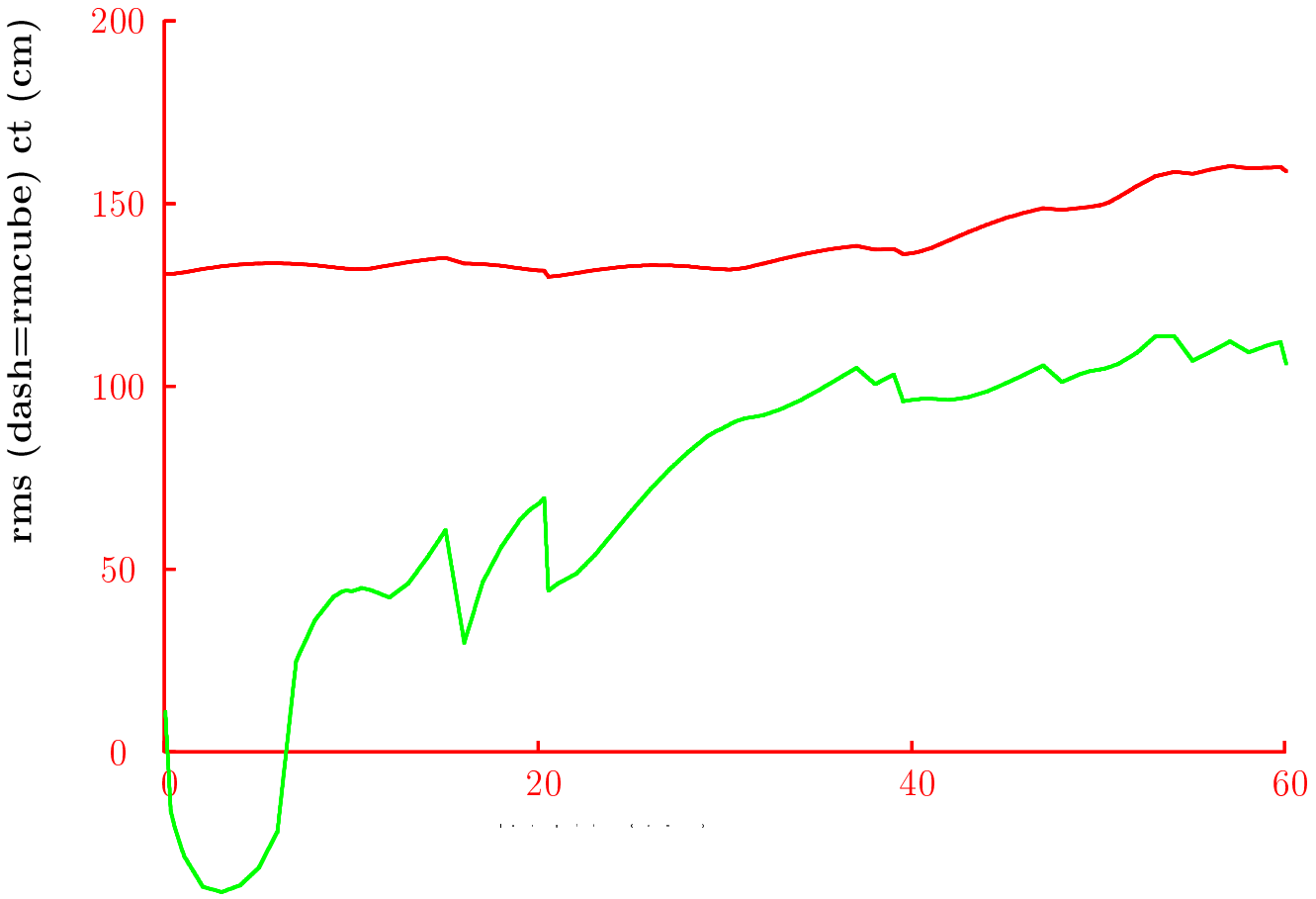
Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)

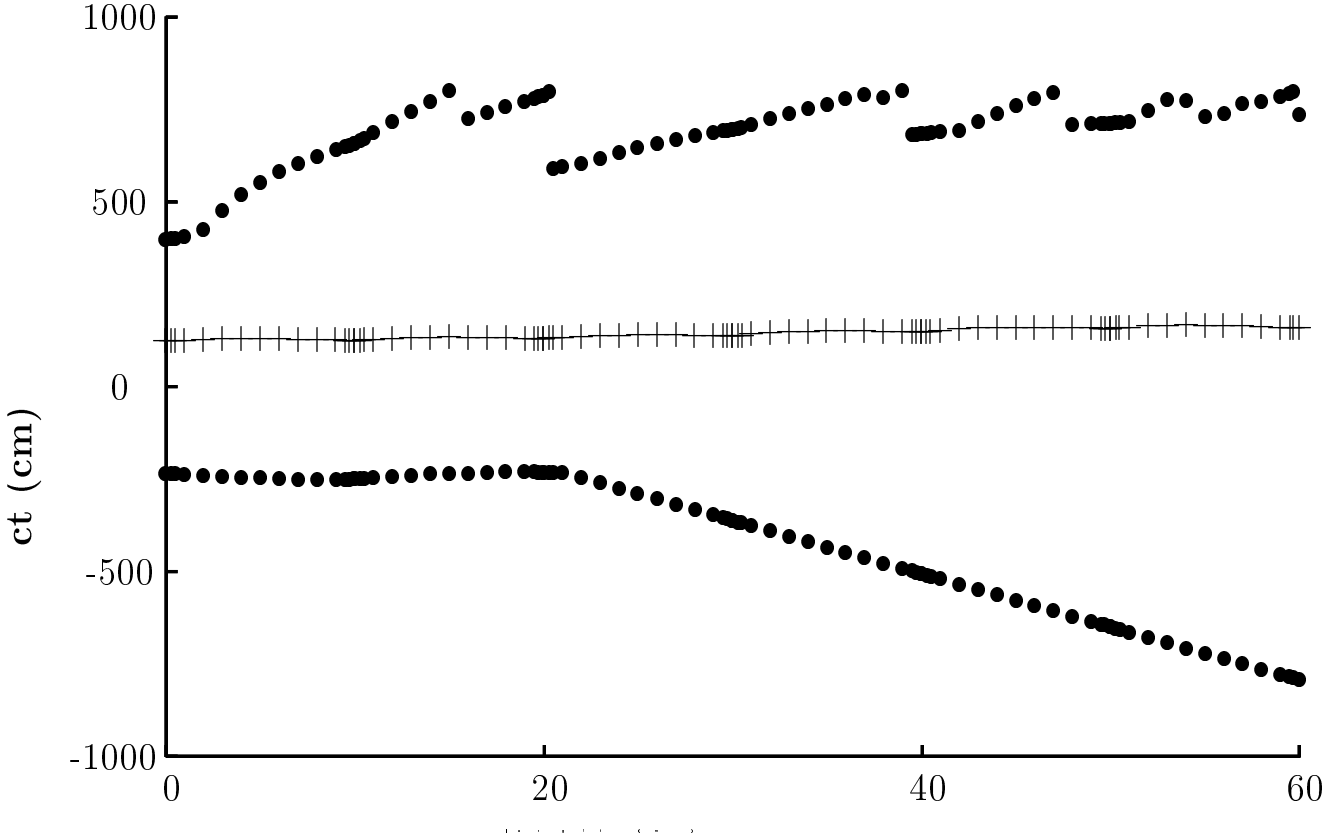


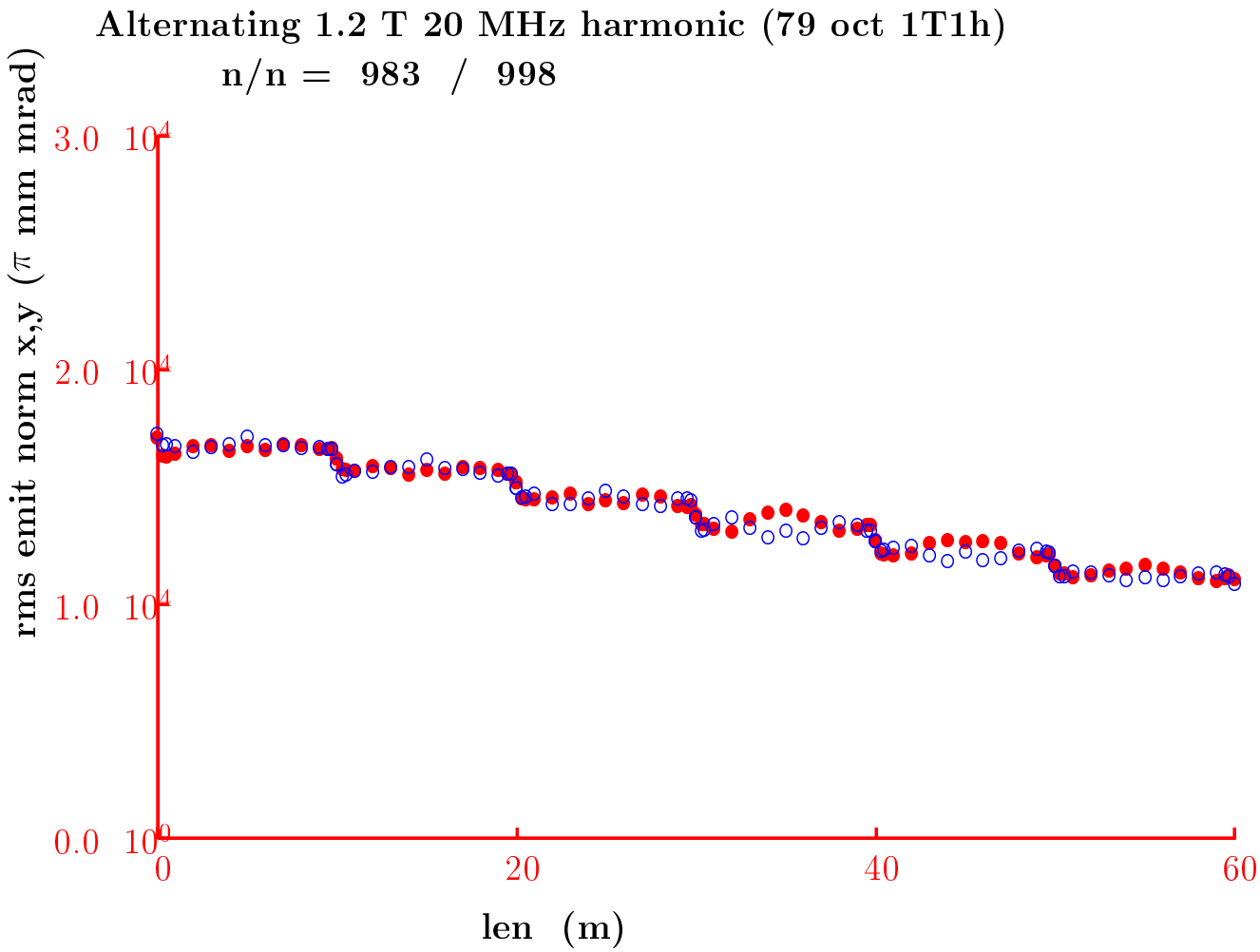

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
100
75
50
25
0
rms rad (cm)
0
20
40
60
len (m)

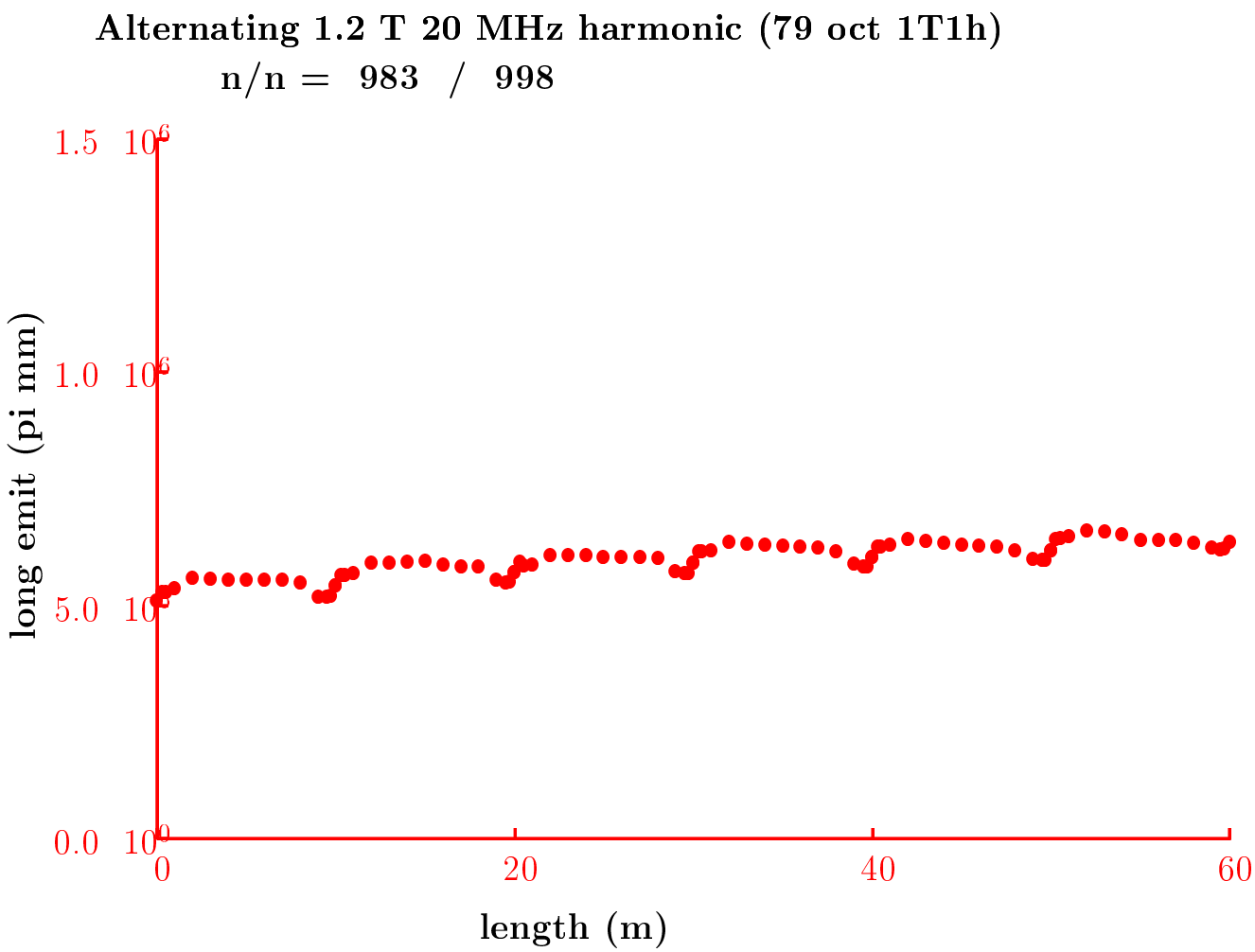

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
1000
750
500
250
0
rms theta (mrad)
0
20
40
60
len (m)

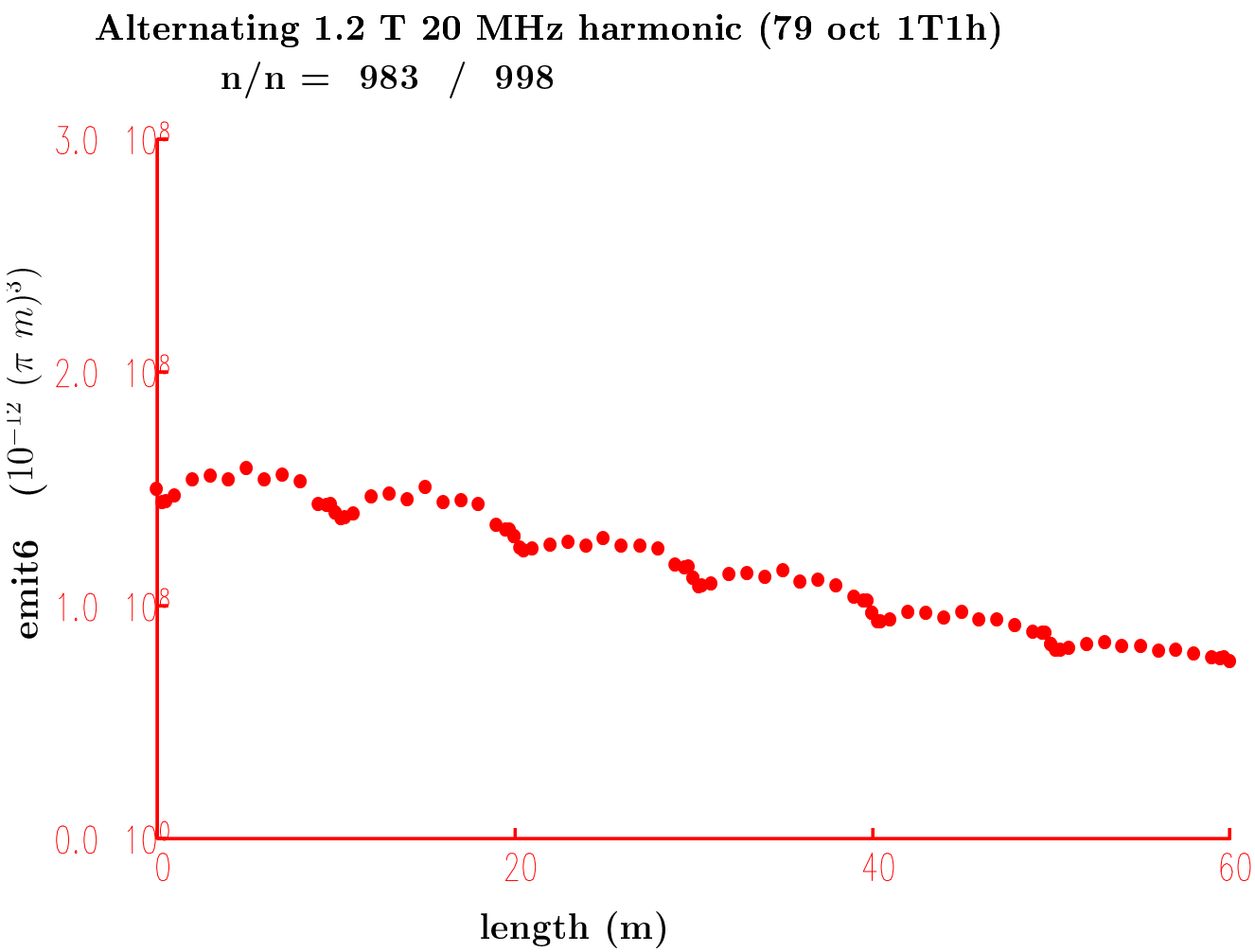

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
rms corr momentum (%)
40
30
20
10
0
0
20
40
60
length (m)

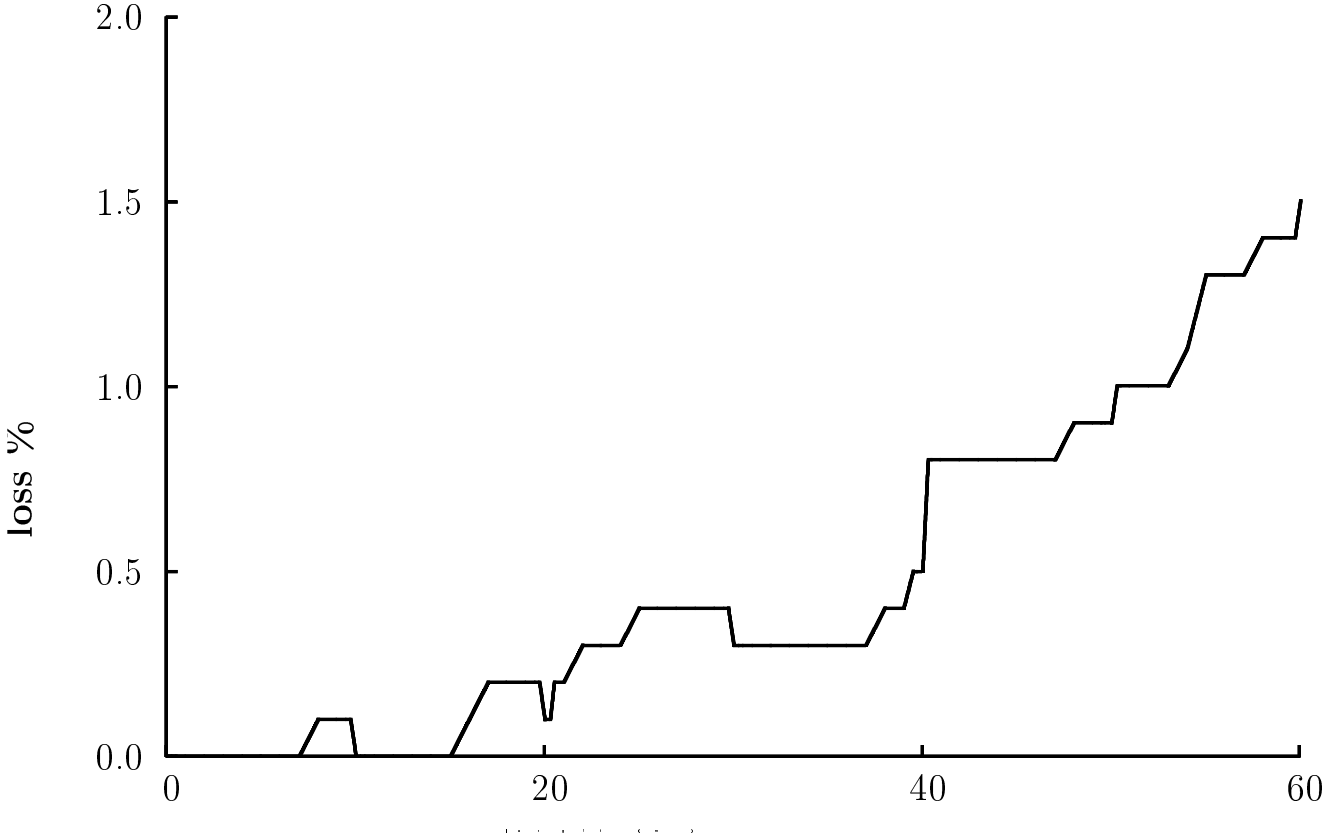

rms (dash=rmcube) ct (cm)
200
150
100
50
0
0
20
40
60

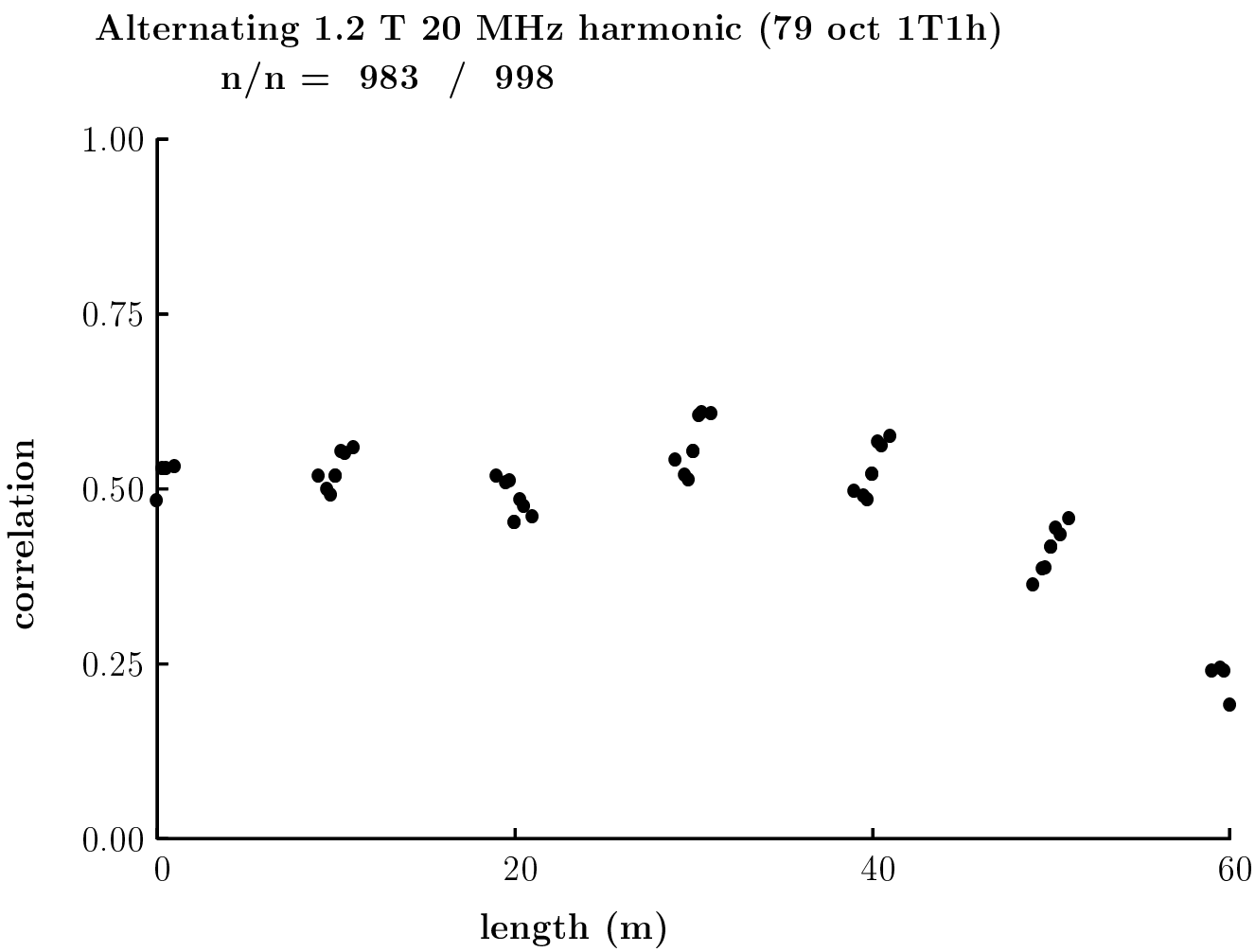

1000
500
0
-500
-1000
ct (cm)
0
20
40
60

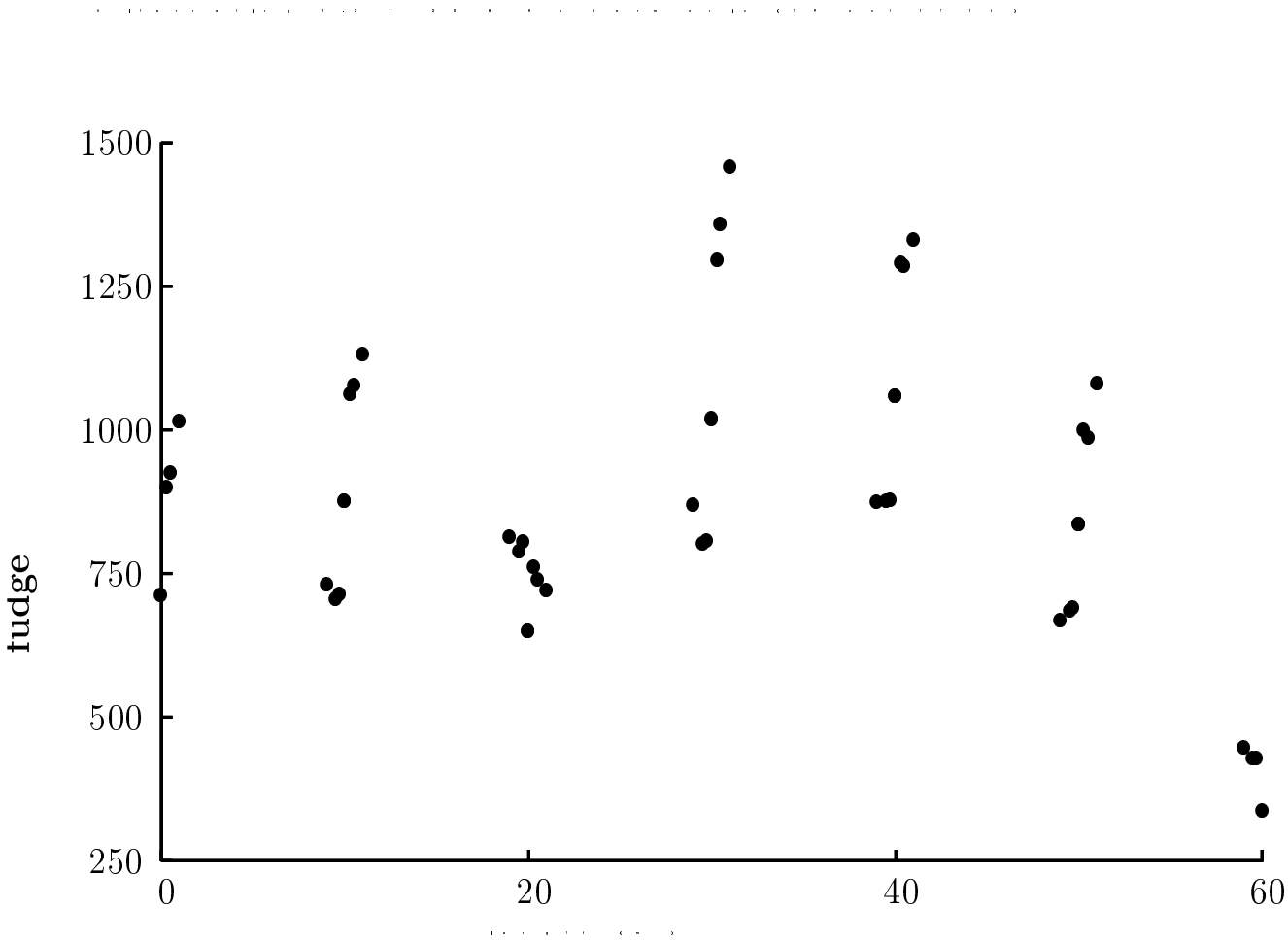

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
rms emit norm x,y (π mm mrad)
3.0 10^4
2.0 10^4
1.0 10^4
0.0 10^0
0
20
40
60
len (m)

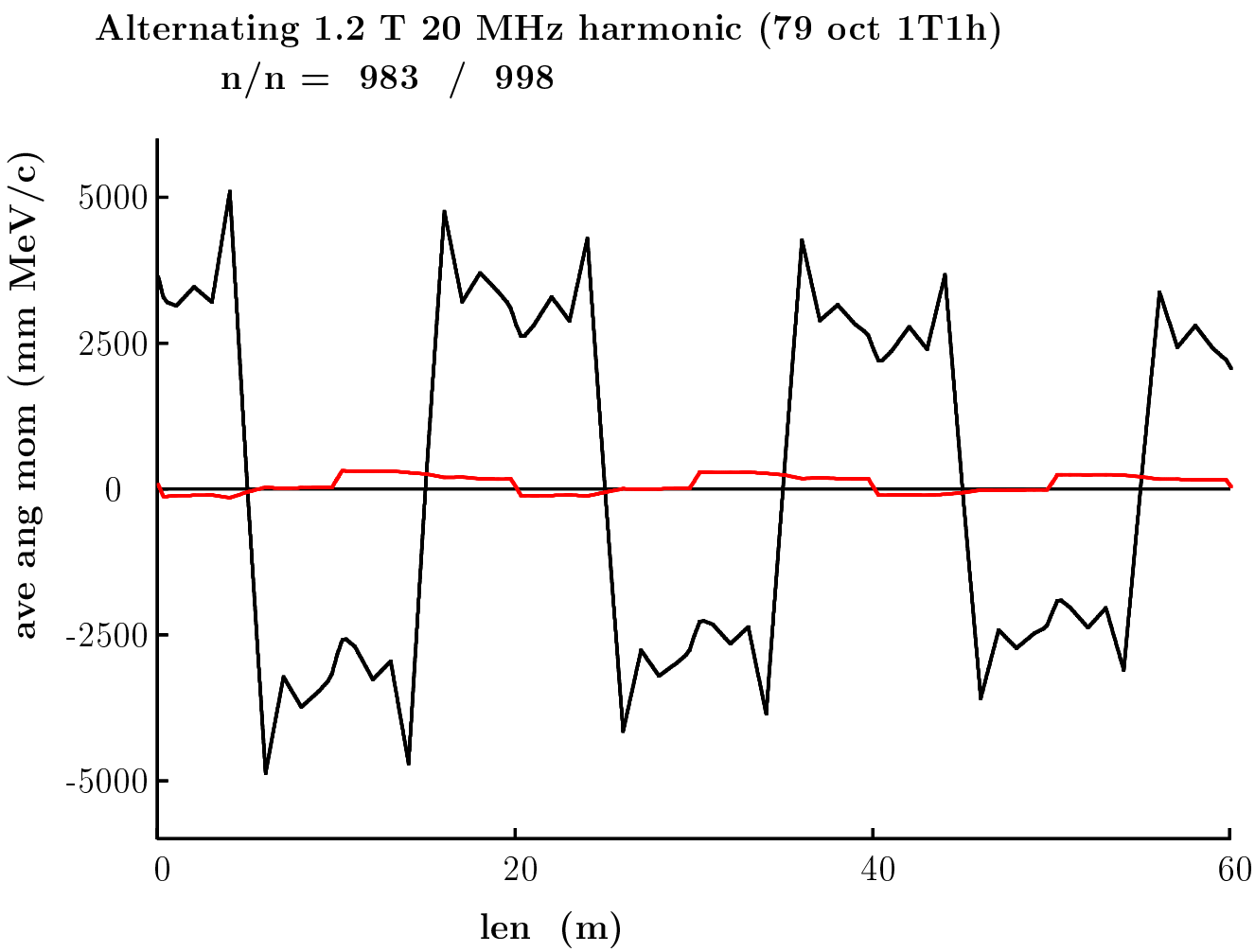

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
1.5 10^6
1.0 10^6
5.0 10^5
0.0 10^0
long emit (pi mm)
0
20
40
60
length (m)

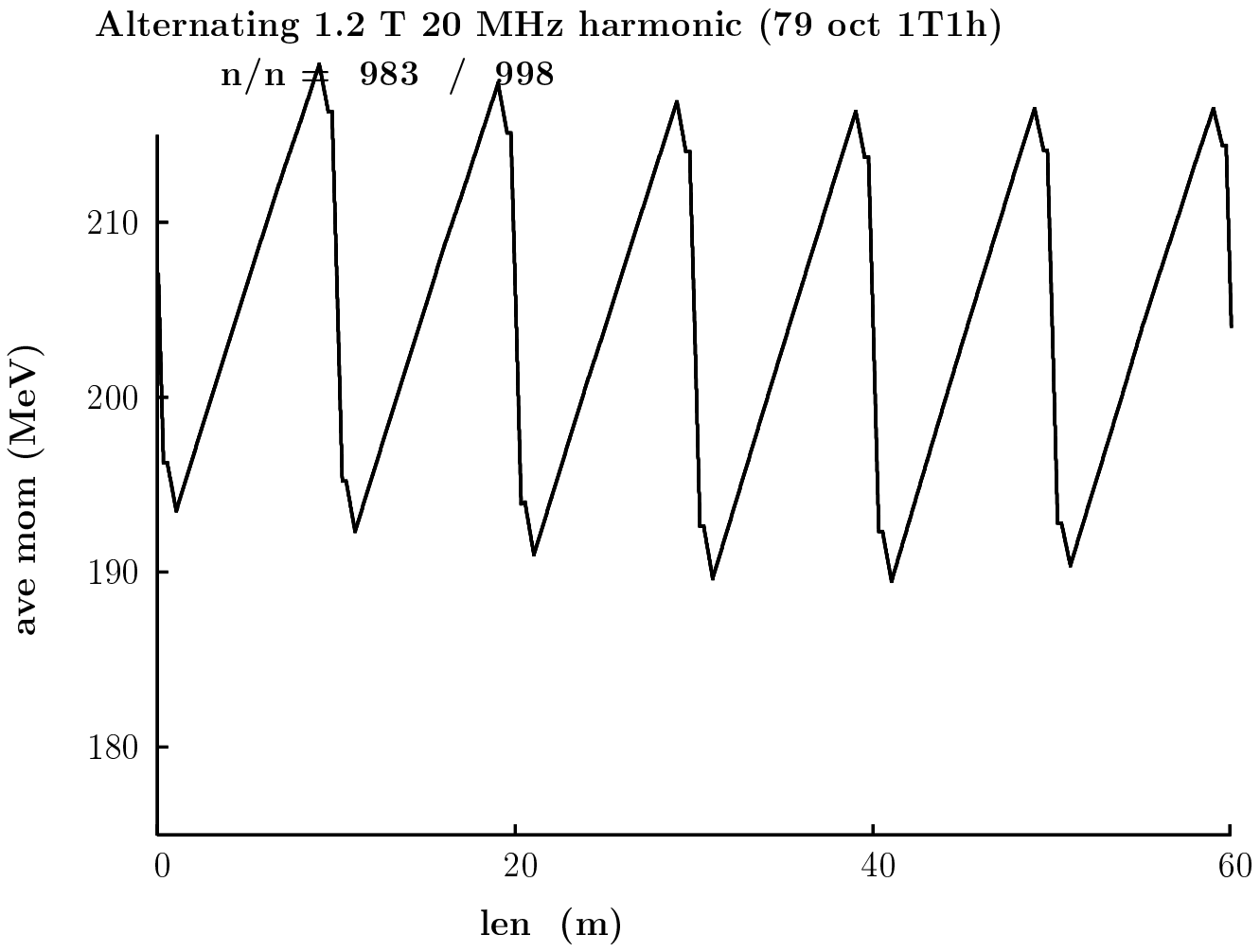

Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
3.0 10^8
2.0 10^8
1.0 10^8
0.0 10^0
emit6 (10^-12 (π m)^3)
0
20
40
60
length (m)

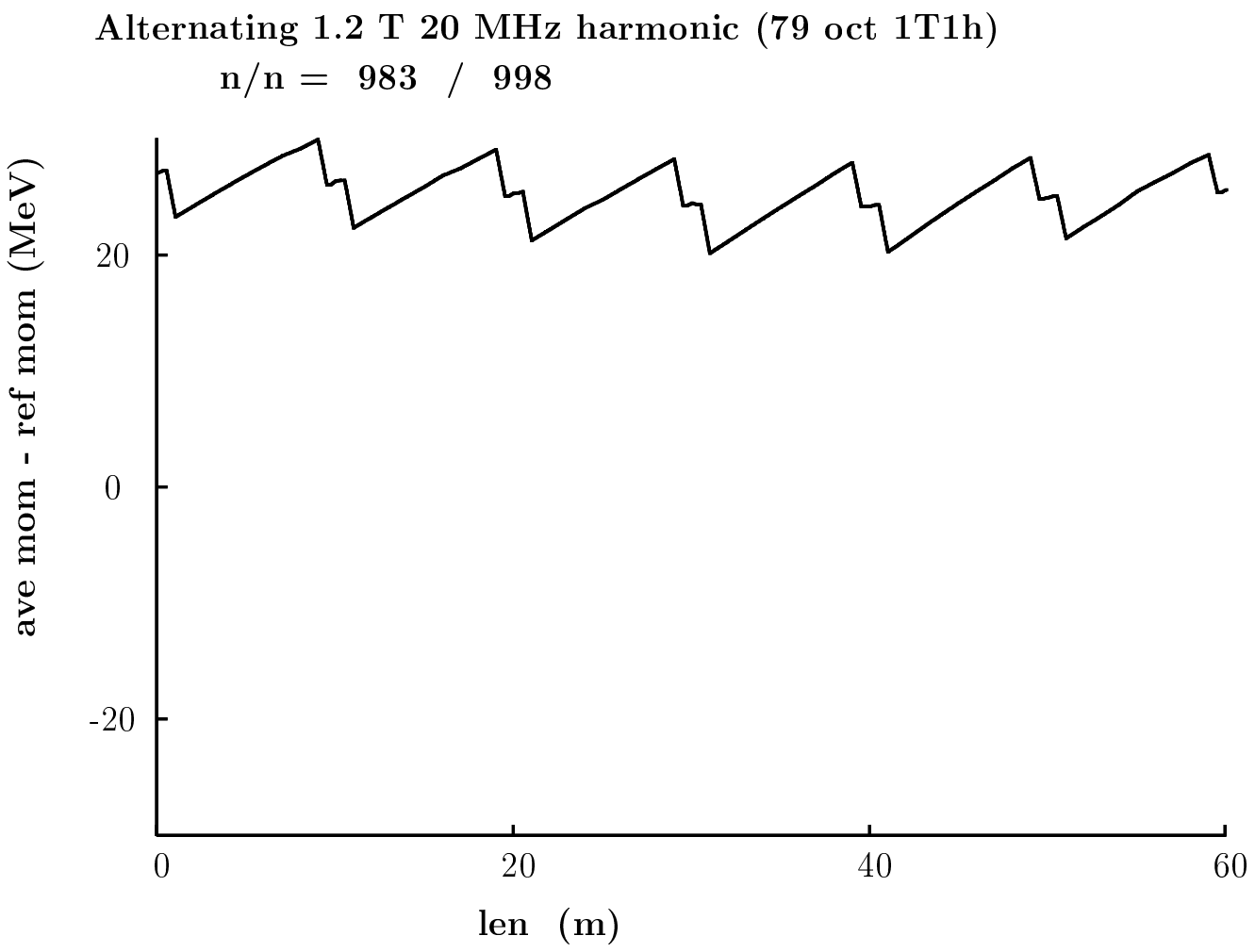

2.0
1.5
1.0
0.5
0.0
loss %
0
20
40
60


Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
1.00
0.75
0.50
0.25
0.00
correlation
0
20
40
60
length (m)


1500
1250
1000
750
500
250
fudge
0
20
40
60


Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
ave ang mom (mm MeV/c)
5000
2500
0
-2500
-5000
0
20
40
60
len (m)


Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
ave mom (MeV)
210
200
190
180
0
20
40
60
len (m)


Alternating 1.2 T 20 MHz harmonic (79 oct 1T1h)
n/n = 983 / 998
ave mom - ref mom (MeV)
20
0
-20
0
20
40
60
len (m)