Magnetic field configuration for Study 2A

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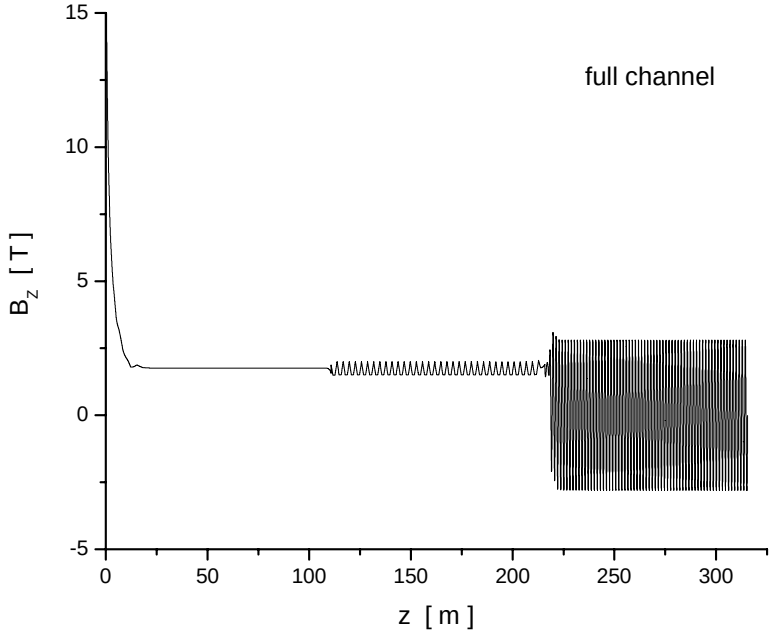
MC Friday Meeting
13 February 2004

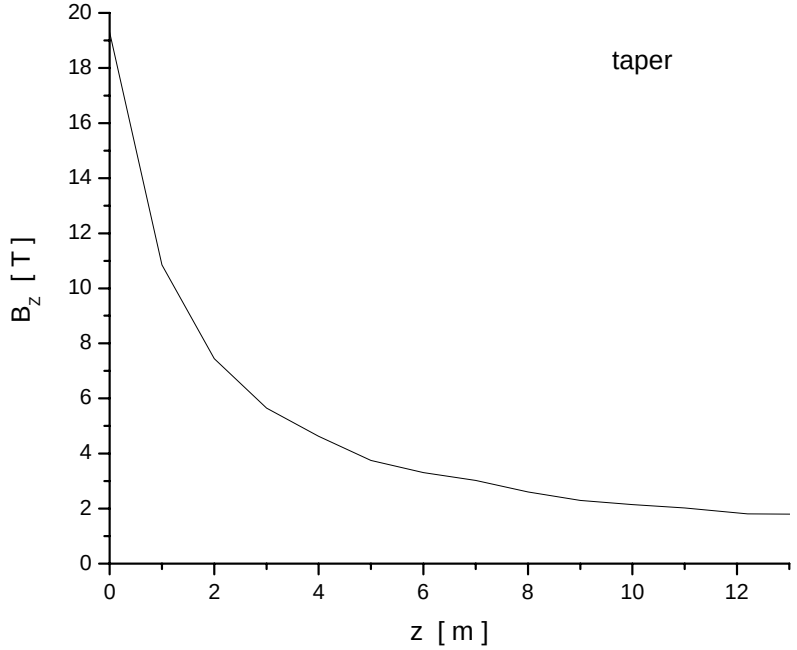
ICOOL moving grid mode

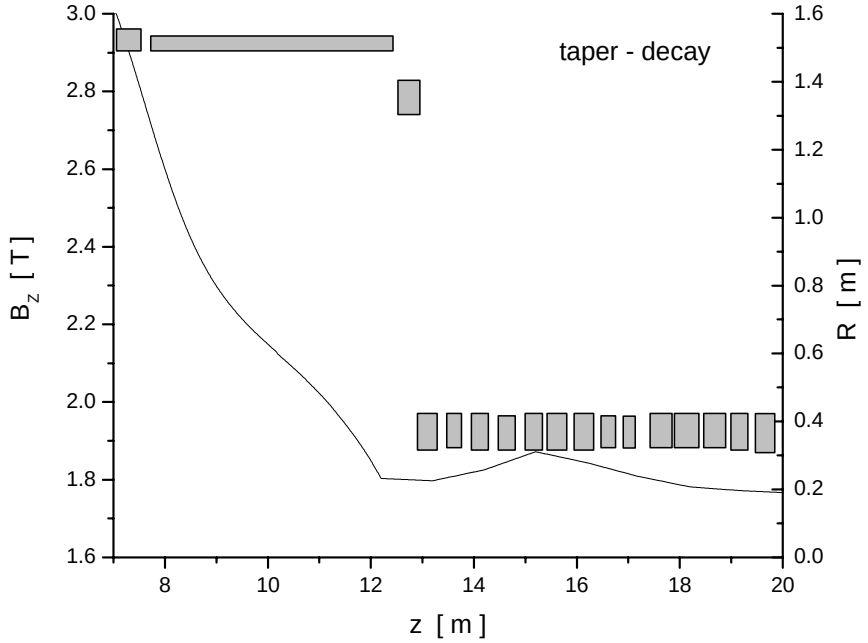
1. grid definition file
2. coil configuration file

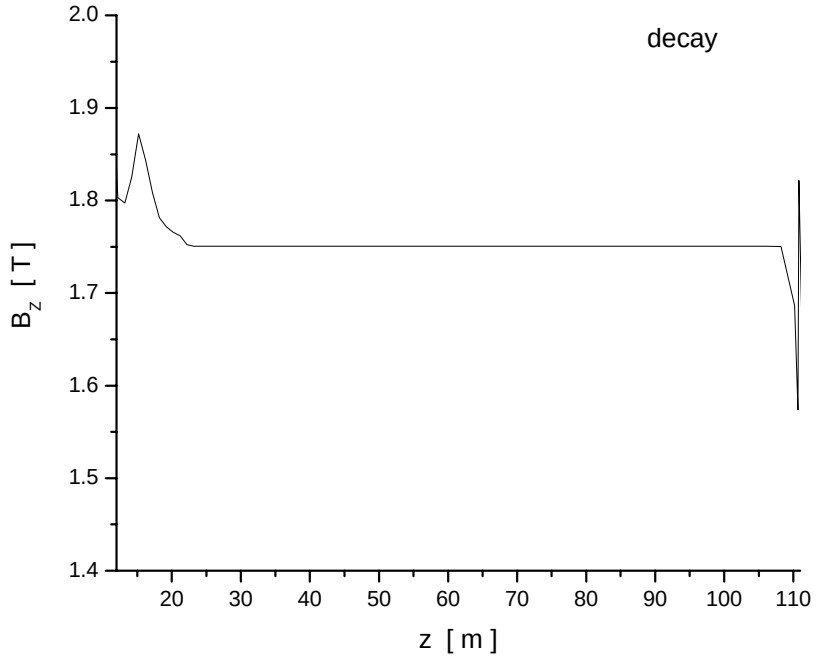
```
Front end for study2a
 487
 1 -0.480  0.103  0.075  0.051  47.2 5
 2 -0.480  0.475  0.126  0.027  51.2 5
 3 -0.480  0.616  0.159  0.051  38.3 5
 4 -0.480  0.755  0.226  0.064  24.6 5
 5 -0.755  0.882  0.400  0.320  49.2 5
 6  0.177  0.517  0.400  0.232  50.3 5
 7  0.744  0.485  0.522  0.190  48.4 5
 8  1.279  0.710  0.692  0.143  51.1 5
 9  2.039  0.959  0.919  0.102  52.2 5
 10 3.048  1.465  1.260  0.085  53.6 5
 11 4.563  3.153  1.500  0.047  58.9  5
 12 7.766  4.707  1.500  0.023  75.0  5
 13  11.4  0.36  0.32  0.1  0.  5
 14  12.6  0.36  1.30  0.1  35.7  5
 15  13.  0.36  0.32  0.1  7.6  5
 16  13.5  0.36  0.32  0.1  10.8  5
 17  14.  0.36  0.32  0.1  16.0  5
 18  14.5  0.36  0.32  0.1  15.1  5
 19  15.  0.36  0.32  0.1  19.00 5
 20  15.5  0.36  0.32  0.1  19.00 5
 21  16.  0.36  0.32  0.1  19.00 5
 22  16.5  0.36  0.32  0.1  19.00 5
 23  17.  0.36  0.32  0.1  19.00 5
 24  17.5  0.36  0.32  0.1  19.00 5
```

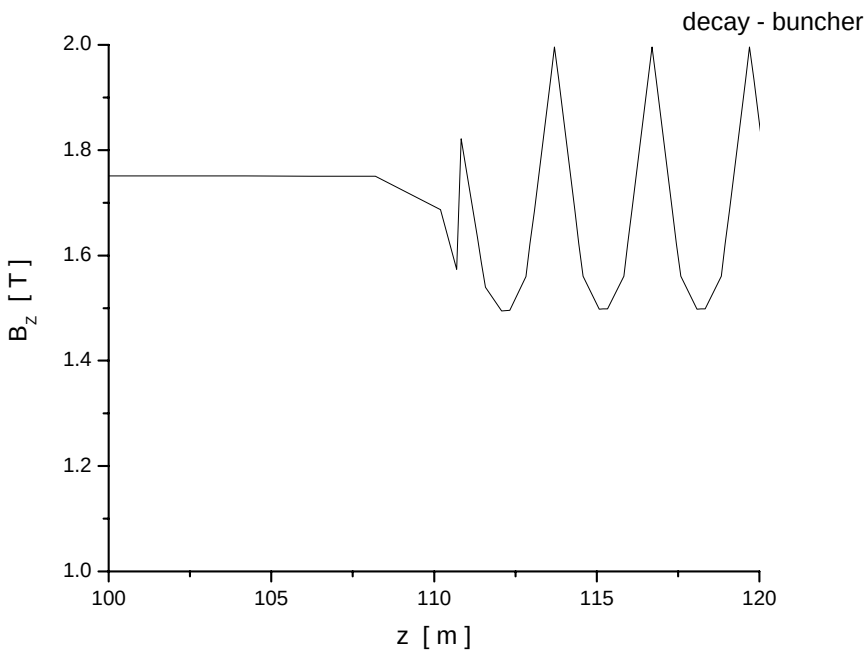

full channel
15
10
5
0
-5
0
50
100
150
200
250
300
B_z [T]
z [m]

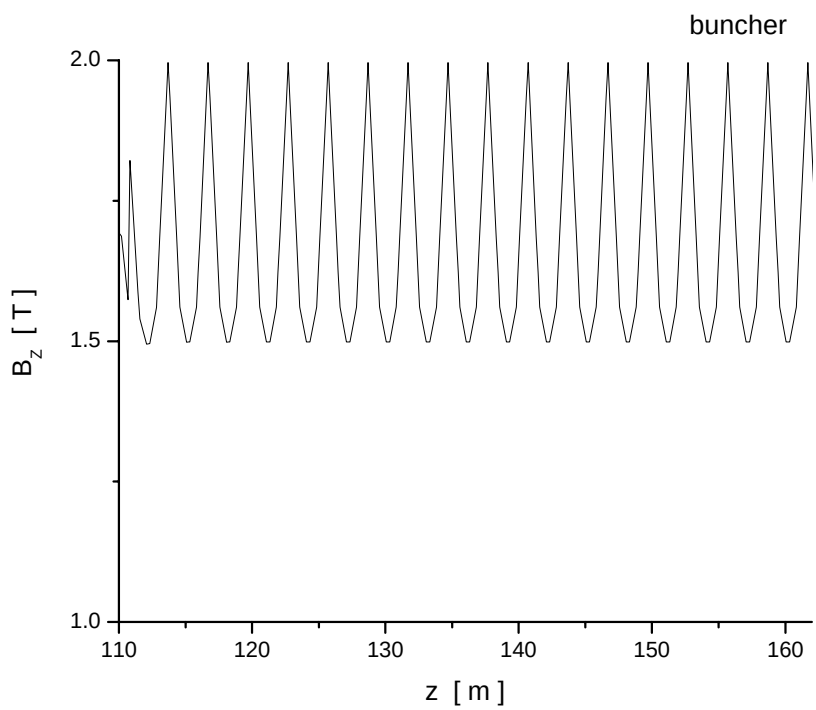
.

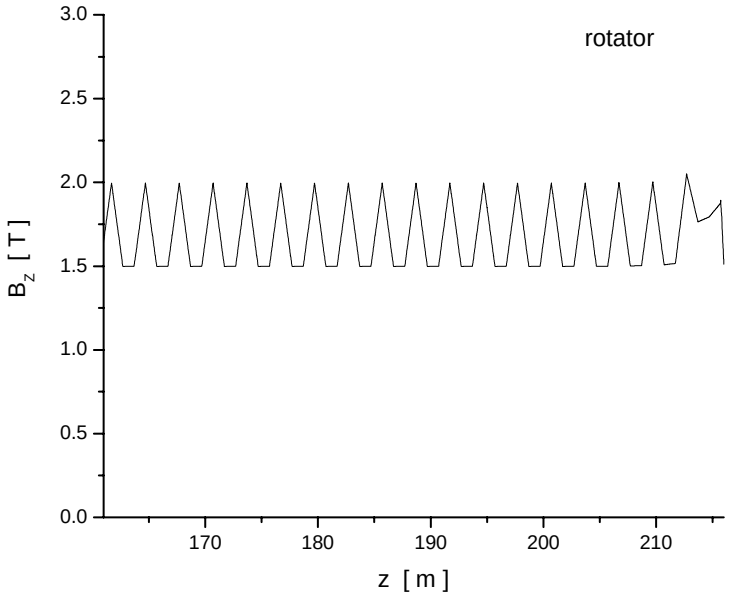

taper
20
18
16
14
12
10
8
6
4
2
0
0
2
4
6
8
10
12
B_z [T]
z [m]

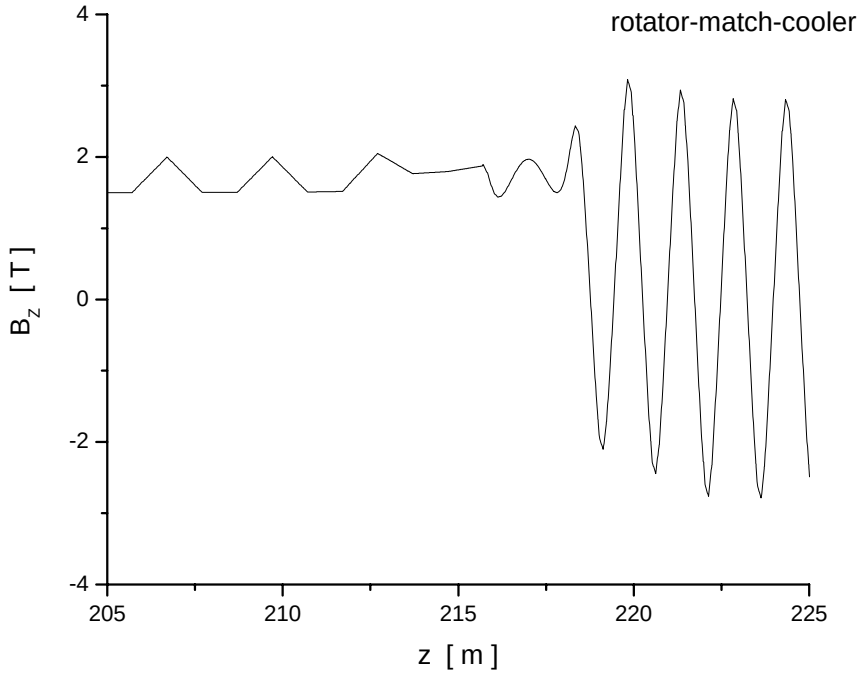

taper - decay
B_z [T]
R [m]
z [m]
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
10
12
14
16
18
20

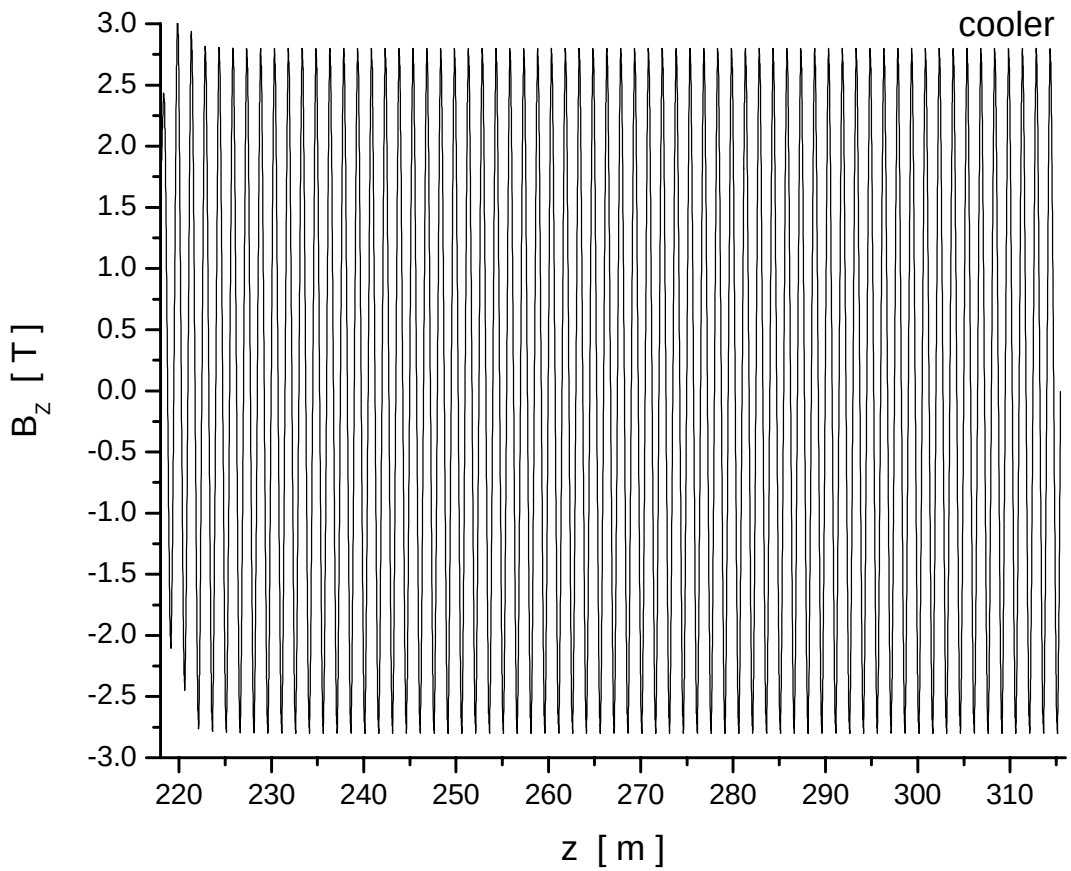

decay
B_z [T]
z [m]
2.0
1.9
1.8
1.7
1.6
1.5
1.4
20
30
40
50
60
70
80
90
100
110


decay - buncher
2.0
1.8
1.6
1.4
1.2
1.0
B_z [T]
100
105
110
115
120
z [m]


buncher
2.0
1.5
1.0
B_z [T]
110
120
130
140
150
160
z [m]


rotator
3.0
2.5
2.0
1.5
1.0
0.5
0.0
B_z [T]
170
180
190
200
210
z [m]


rotator-match-cooler
4
2
0
-2
-4
B_z [T]
205
210
215
220
225
z [m]


cooler
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
B_z [T]
220
230
240
250
260
270
280
290
300
310
z [m]