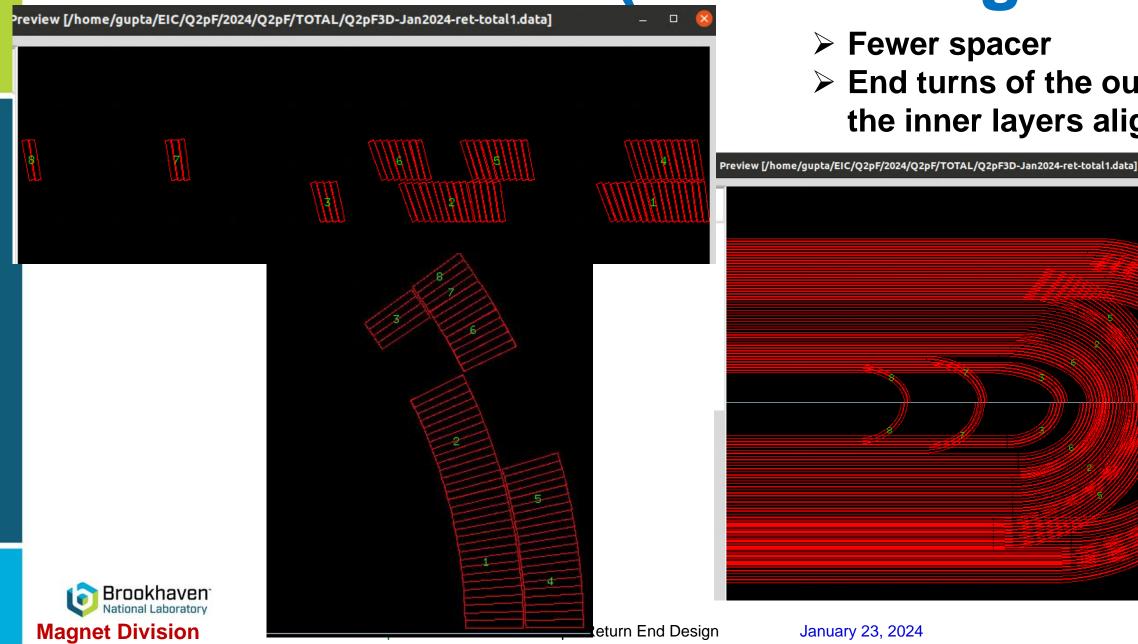
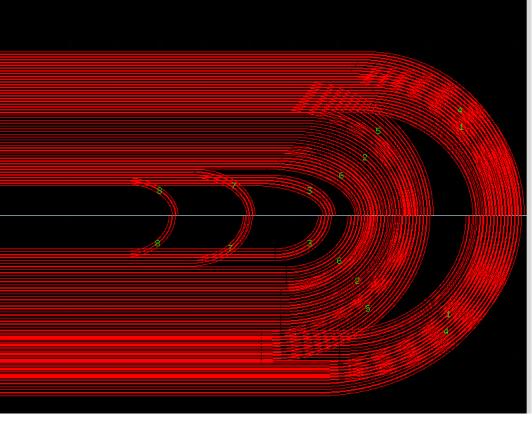
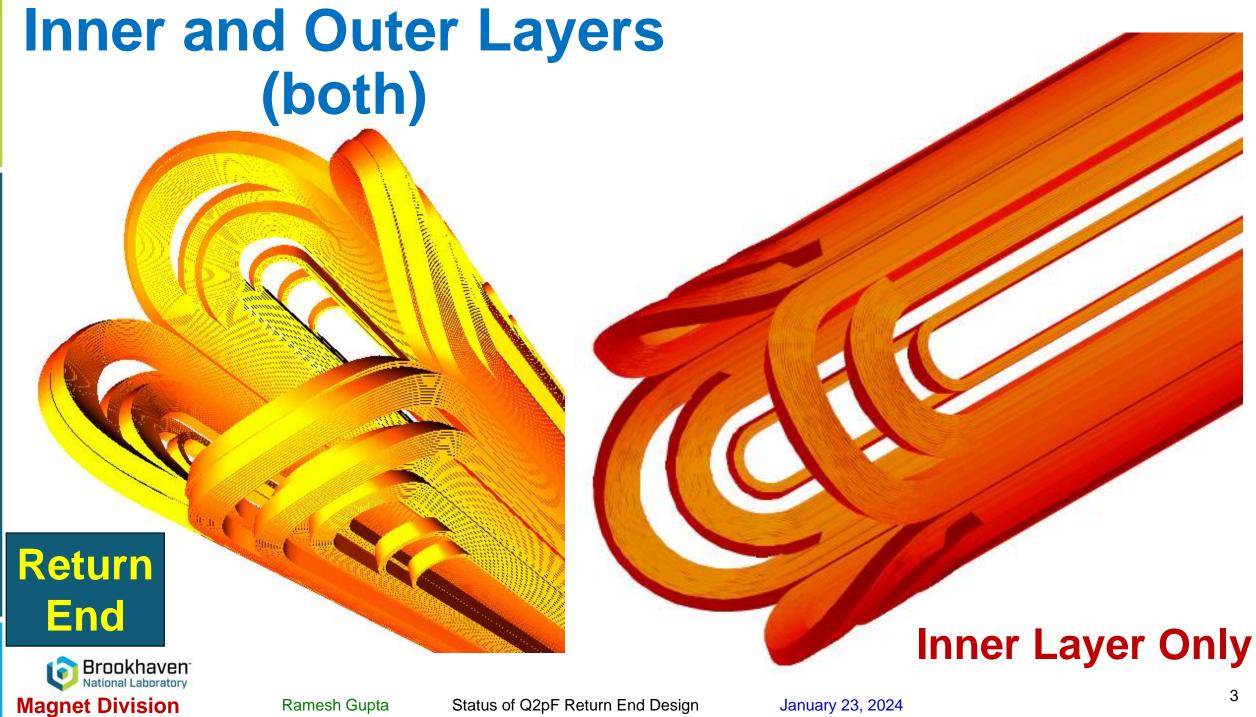


Current Version (min tilt angle 70°)

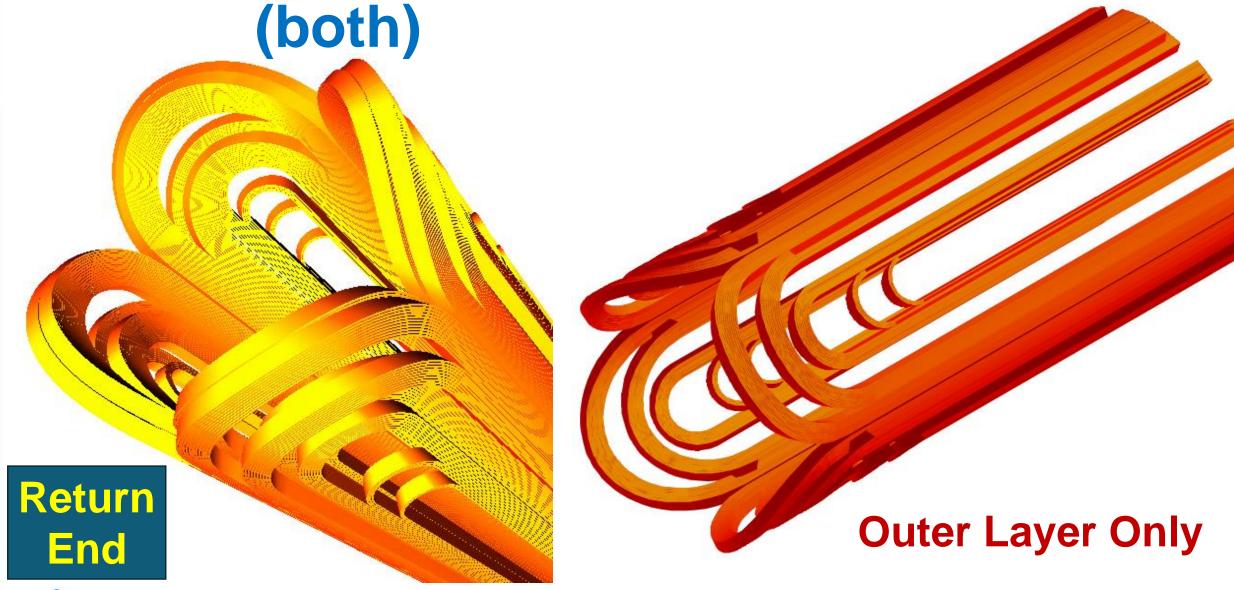


- > Fewer spacer
- End turns of the outer and the inner layers aligned





## Inner and Outer Layers



## Peak field & harmonics



## **Reasonable start:**

- Field harmonics (3-d): seems ok
- Peak field: 6.98 T (Vs 6.85 T in 2-d) Only about ~1.9% higher peak field than that in x-section

(calculation errors?)



**Integrated Harmonics (3-d)** 

```
HARMONIC ANALYSIS NUMBER ......
REFERENCE RADIUS (mm) .....
                                                83,0000
X-POSITION OF THE HARMONIC COIL (mm) ......
                                                0.0000
Y-POSITION OF THE HARMONIC COIL (mm) .....
                                                0.0000
NUMBER OF ANALYSES ALONG Z ......
LENGTH OF VIRTUAL COIL (mm) ......
                                               200,0000
REFERENCE POSITION NUMBER .....
ERROR OF HARMONIC ANALYSIS OF Br .....
                                             0.6826E-04
SUM (Br(p) - SUM (An cos(np) + Bn sin(np))
3D REFERENCE MAIN FIELD (T) ......
                                                3,4386
REFERENCE MAGNET STRENGTH (T/(m^(n-1)) .....
                                               41,4295
MAGNETIC LENGTH (mm) .....
                                               200,0006
NORMAL 3D INTEGRAL RELATIVE MULTIPOLES (1.D-4):
                                               Body
                                       0.00000
                    10000.00000
                                       0.13027
                        0.00000
       -0.00000
                        0.00000
                                      -0.00000
b10:
       -0.40171
                        0.00000
                               b12:
                                       0.00000
h13:
                       -0.43070
                               b15:
                                       -0.00000
b16:
                                       0.00484
                                               2500,0000
                                        -0.00000
                                b 6:
b10:
b13:
b16:
```

January 23, 2024