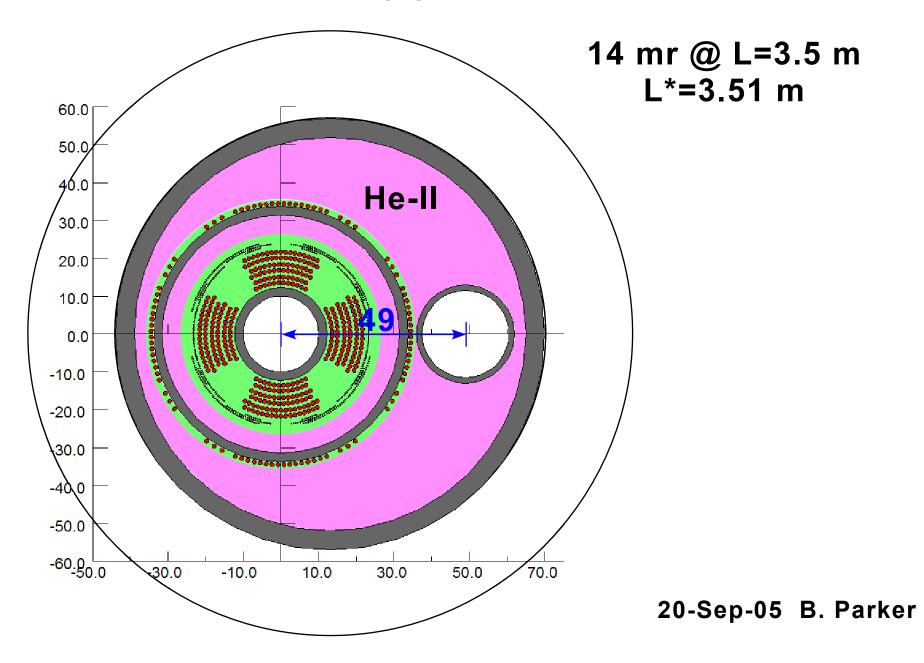
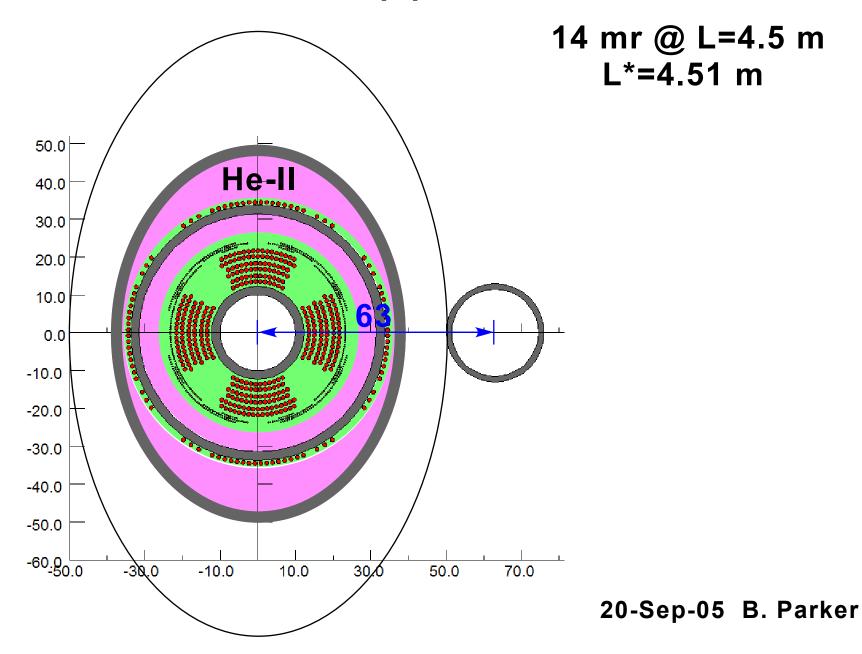


## Cold extraction line beam pipe.



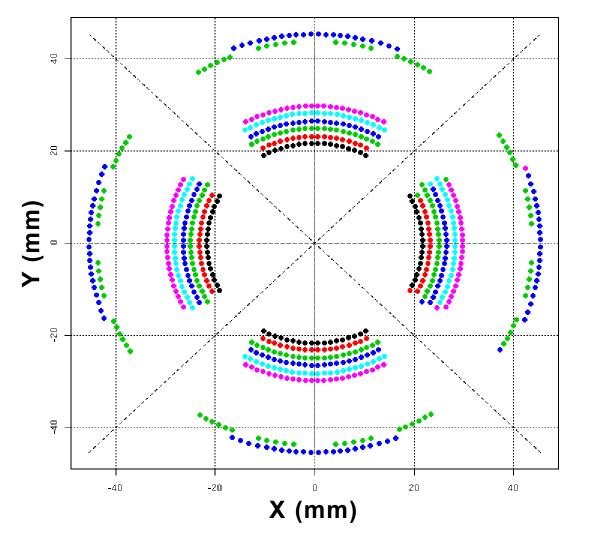
## Warm extraction line beam pipe.



#### External field as a function of angle above the magnet midplane at R = 50 mm 956.5 50 mm (Gauss) 956.4 956.3 Field from 956.2 Shield П 2 956.1 at Field from Field 956.0 Inner Coil 955.9 2 3 5 7 8 9 0 4 6 1 Angle (Degrees)

20-Sep-05 B. Parker

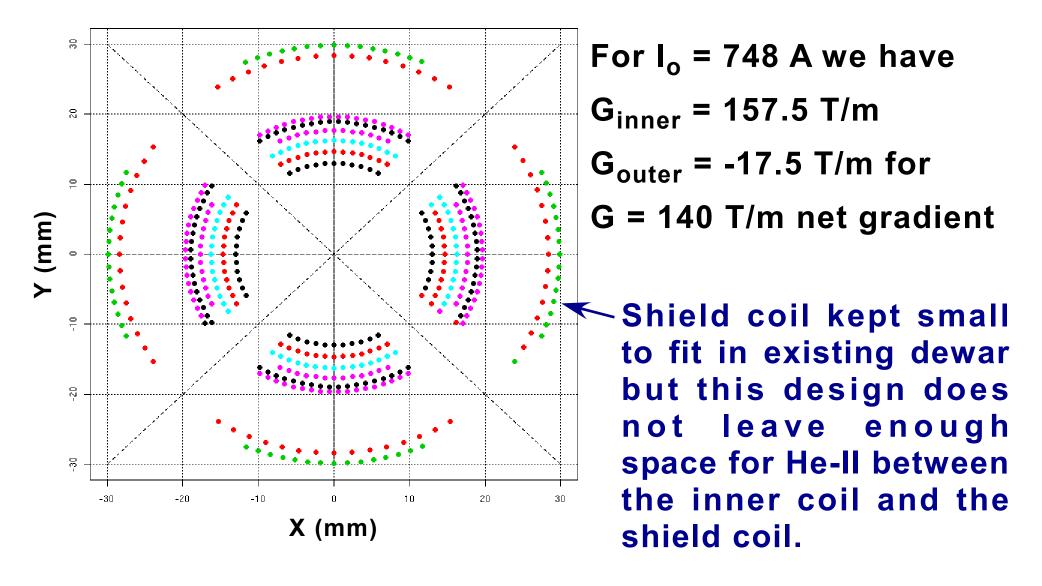
# Design for Shielded Extraction Line Quad with 36 mm ID Clear Aperture



For I<sub>o</sub> = 760 A we have G<sub>inner</sub> = 98 T/m G<sub>outer</sub> = -11 T/m for G = 87 T/m net gradient

20-Sep-05 B. Parker

### **Design for the QT Prototype Shield Coil Winding**



John has just started winding this magnet.