

For $I_0 = 696$ A we have

$G_{\text{inner}} = 146.5$ T/m

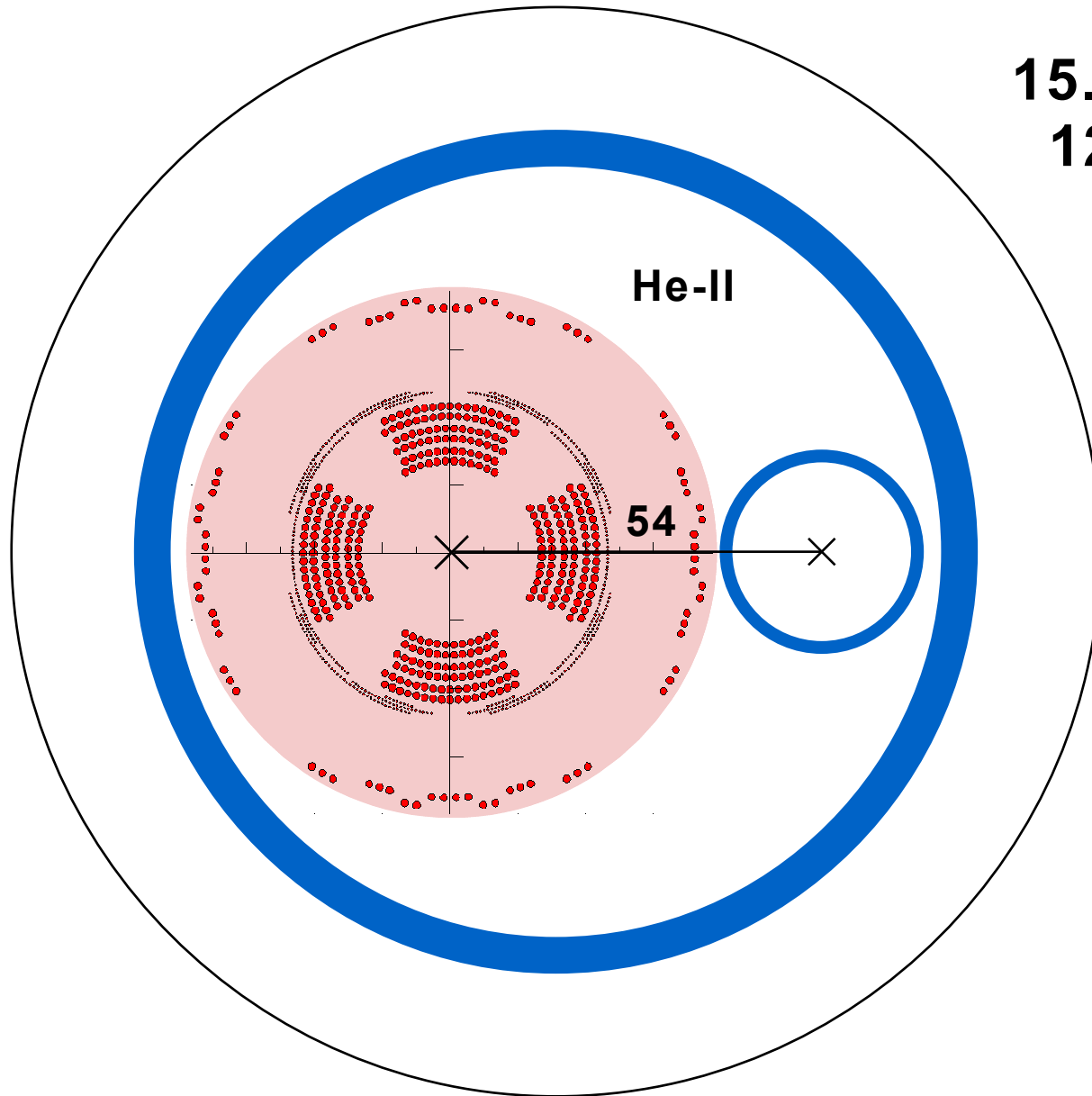
$G_{\text{outer}} = -6.5$ T/m for

$G = 140$ T/m net gradient

Here we assume the shield coil runs in series with the inner quadrupole.

Coil outer surface has 78 mm OD.

Cold extraction line beam pipe.



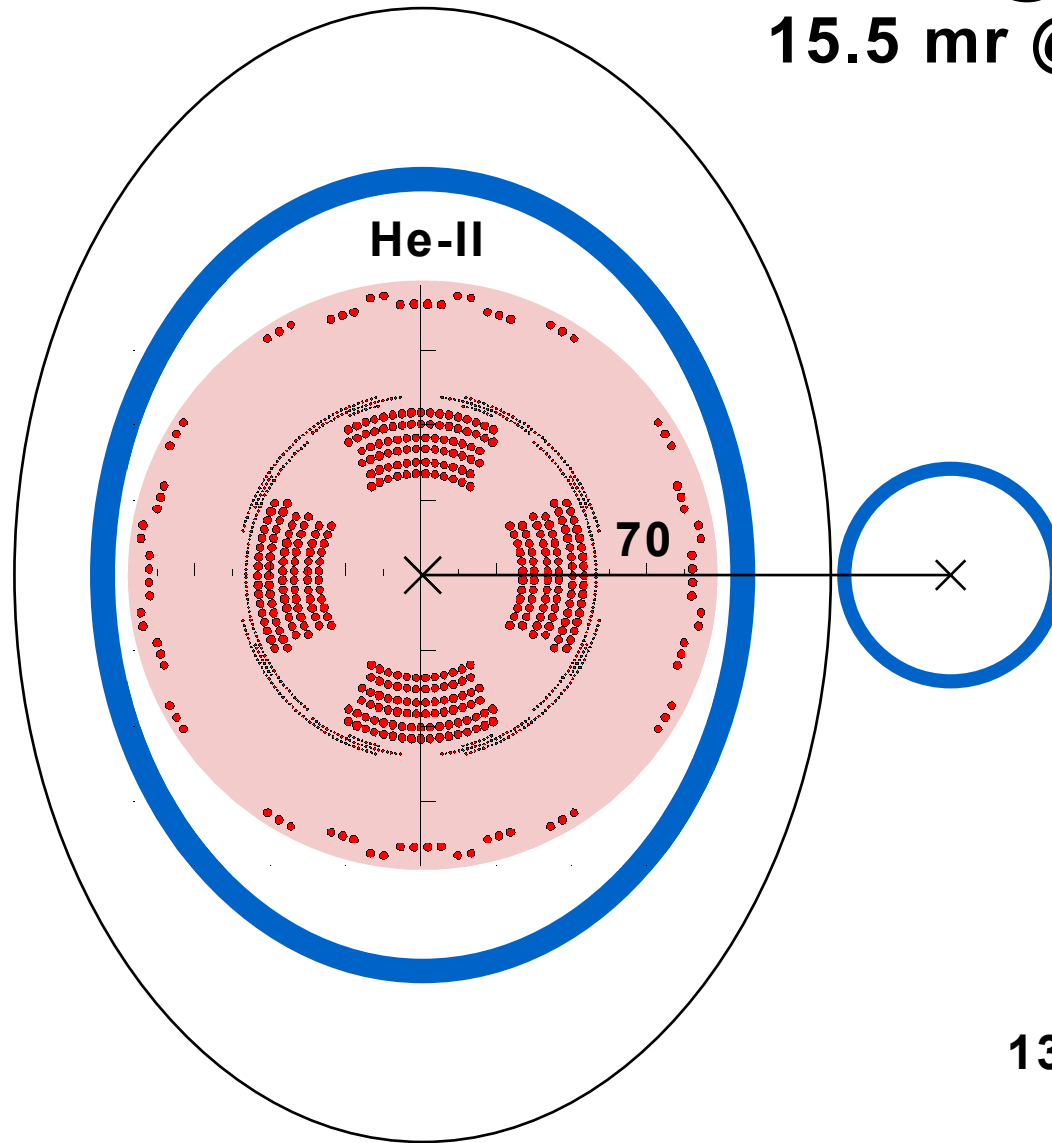
15.4 mr @ $L^*=3.5$ m
12 mr @ $L^*=4.5$ m

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Can just reach 12 mr total crossing angle.

Warm extraction line beam pipe.

20 mr @ $L^*=3.5$ m
15.5 mr @ $L^*=4.5$ m



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But still maintain 20 mr for the baseline design at 3.5 m.