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Subject: Re: Solenoid field effect on the particle track theta!  
Posted by [Jost Lühning](#) on Mon, 17 Aug 2009 15:57:41 GMT  
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Dear Huagen Xu,

the distortion of the circle is due to the rectangular shape of the aperture which we need in the downstream door of the solenoid. In the aperture the field component in y-direction is much bigger than in x-direction (see attachment).

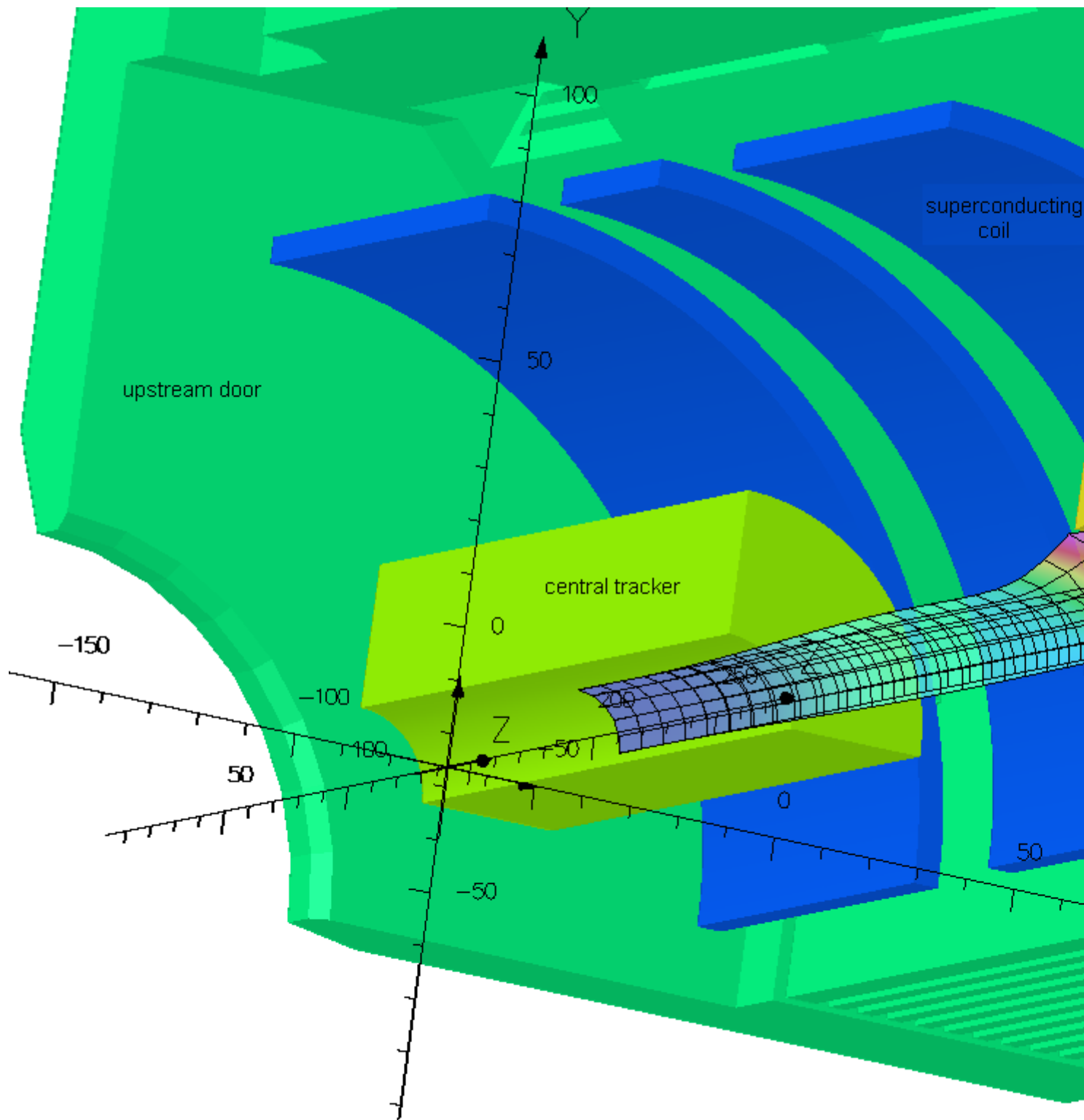
Best regards,  
Jost Luehning

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#### File Attachments

1) [RadialFieldApertureDS.png](#), downloaded 584 times

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Radial field on the surface of a cylinder with a radius of 10 cm.  
 Maximum field towards the top edge of the aperture of the downstream door (red/pink)