

SS Field Model

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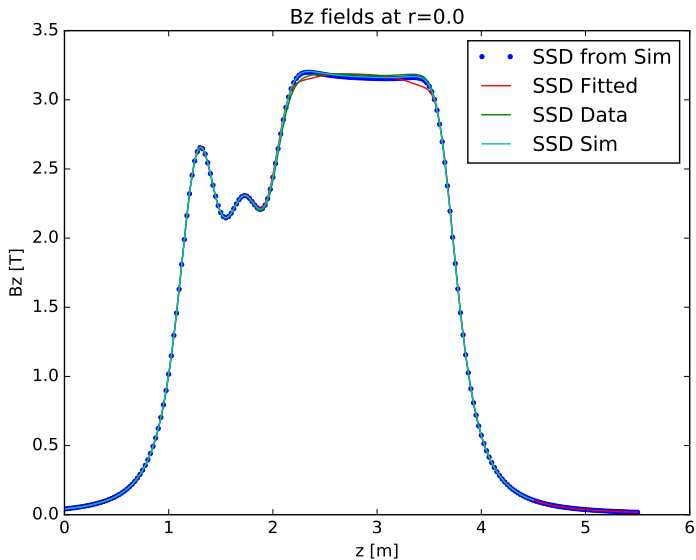
University of Sheffield, Department of Physics and Astronomy

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CM46

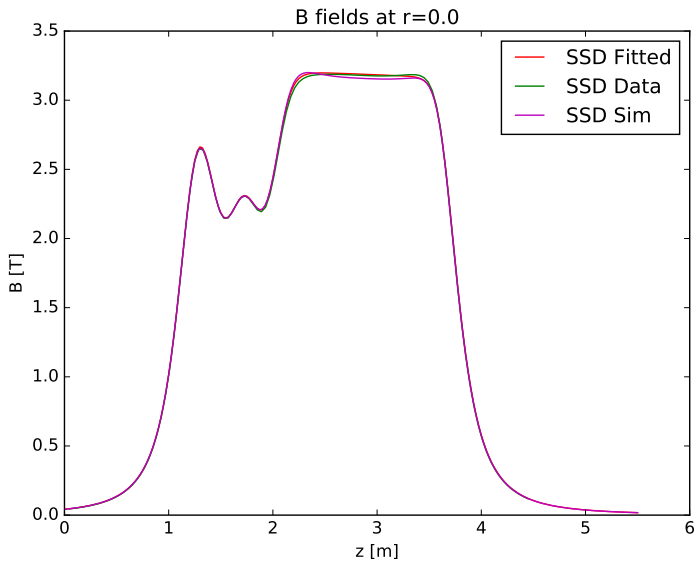
Applying Fitting Routine to SSD

- Fitting routine has been applied to all of SSD's coils
- Also data exists where the CC is powered 'individually'
- Fitting routine has been slightly improved

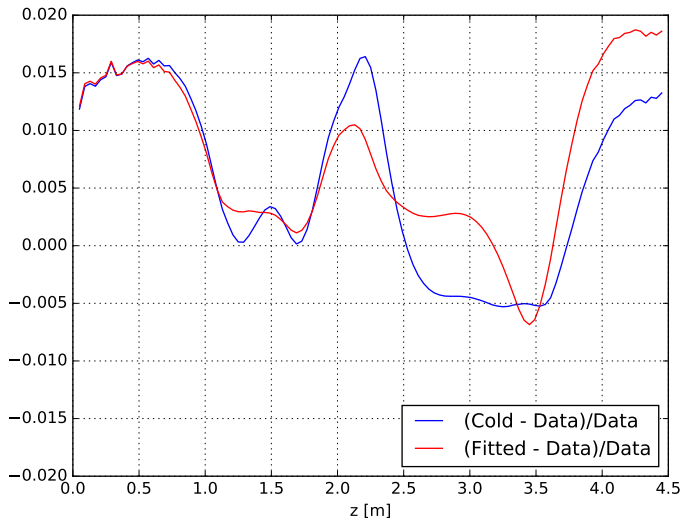
Last time at analysis meeting...



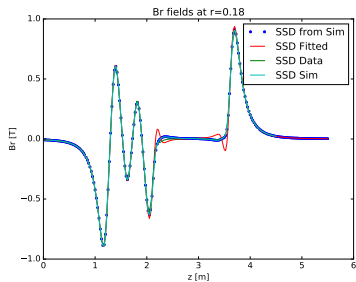
And now...



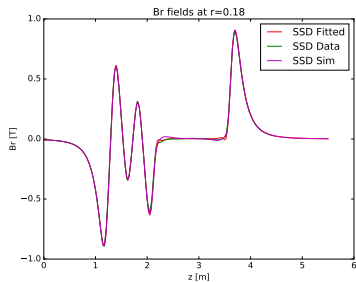
In terms of fractional difference.



And it looks better for Br too.

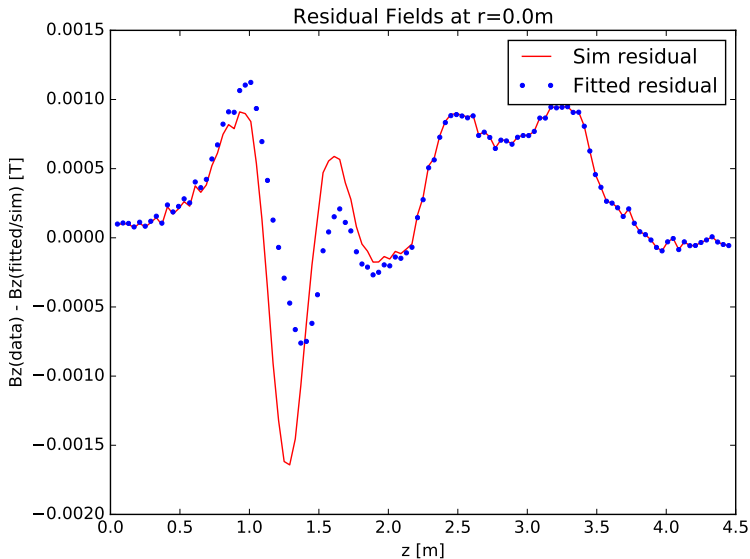


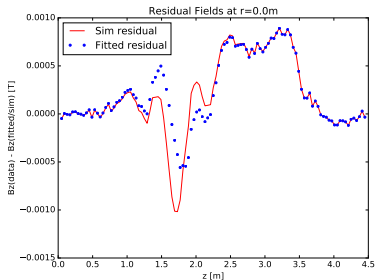
(a) Before improvements



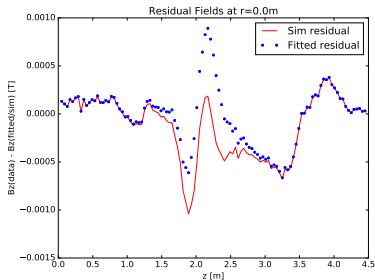
(b) After improvements

Also last time people noticed an excess in the residual field.





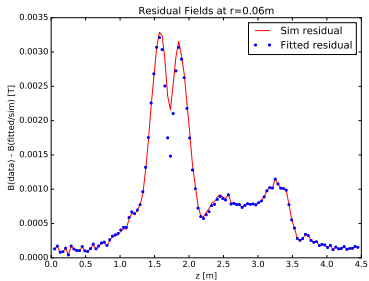
(c) M2 Residuals



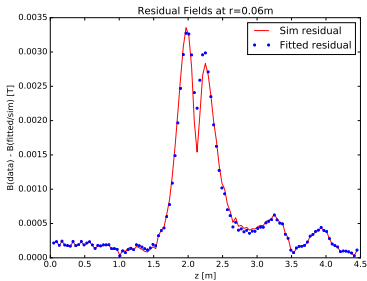
(d) E1 Residuals

Excess residual field can be seen in the region where the Centre Coil exists.

The residual can also be seen in the same plot for E2 although it's less obvious.



(a) M2 Residuals



(b) E1 Residuals

Still shows at different r, ϕ .