

■ Fit to B_0 (high field)

The units of B_x, B_y , and B_z are in Gauss. The units of x, y , and z are in meters.

$$\begin{aligned}
 B_x[x, y, z] = & -0.00434103 x^2 - 0.00792216 x y - 0.0127777 x z - \\
 & 0.000203519 x + 0.00112195 y^2 + 0.00283096 y z - \\
 & 0.00426719 y - 0.00348932 z^2 - 0.000593281 z + 0.891535 \\
 B_y[x, y, z] = & -0.0196158 x^2 - 0.00332646 x y - \\
 & 0.0052633 x z + 0.00571542 x - 0.00845591 y^2 + \\
 & 0.0125159 y z - 0.000300915 y - \\
 & 0.0097249 z^2 - 0.00600725 z + 0.00698883 \\
 B_z[x, y, z] = & -0.0143529 x^2 - 0.0724578 x y + \\
 & 0.0120085 x z + 0.00401519 x + \\
 & 0.00946934 y^2 + 0.024834 y z - 0.00338655 y + \\
 & 0.000130915 z^2 + 0.000504434 z + 0.0220951
 \end{aligned}$$

■ Fit to B_0 (low field) using quadratic expressions

The units of B_x, B_y , and B_z are in Gauss. The units of x, y , and z are in meters.

$$\begin{aligned}
 B_x[x, y, z] = & -0.0000121782 x^2 - 0.0000221964 x y - 0.0000358358 x z - \\
 & 1.14144 * 10^{-6} x + 3.16458 * 10^{-6} y^2 + \\
 & 7.93258 * 10^{-6} y z - 0.0000239044 y - \\
 & 9.78196 * 10^{-6} z^2 - 3.32607 * 10^{-6} z + 0.00999411 \\
 B_y[x, y, z] = & -0.0000549998 x^2 - 9.32251 * 10^{-6} x y - \\
 & 0.000014762 x z + 0.000032055 x - 0.0000236904 y^2 + \\
 & 0.0000350975 y z - 1.68759 * 10^{-6} y - \\
 & 0.0000272703 z^2 - 0.0000336811 z + 0.0000783447 \\
 B_z[x, y, z] = & -0.0000402876 x^2 - 0.000203037 x y + \\
 & 0.0000336788 x z + 0.0000225171 x + \\
 & 0.0000264227 y^2 + 0.0000695772 y z - 0.000018972 y + \\
 & 3.69106 * 10^{-7} z^2 + 2.82903 * 10^{-6} z + 0.000247686
 \end{aligned}$$

■ Fit to B_0 (low field) using quartic expressions

The units of B_x, B_y , and B_z are in Gauss. The units of x, y , and z are in meters.

Bx[x, y, z] =

$$\begin{aligned}
 &0.000487206 x^4 + 0.00129613 x^3 y + 0.00165326 x^3 z + \\
 &0.0000192046 x^3 - 0.00311711 x^2 y^2 + \\
 &0.0000347772 x^2 y z - 0.0000492873 x^2 y - \\
 &0.000162472 x^2 z^2 + 0.0000862457 x^2 z - \\
 &0.0000114572 x^2 - 0.000997863 x y^3 - \\
 &0.00070751 x y^2 z - 0.000186402 x y^2 - \\
 &0.0000723192 x y z^2 + 6.94688 * 10^{-6} x y z - \\
 &0.0000365429 x y + 0.000130735 x z^3 + \\
 &0.0000127685 x z^2 - 0.0000613648 x z - 1.2546 * 10^{-6} x + \\
 &0.00874195 y^4 - 0.00067238 y^3 z + 0.000164353 y^3 + \\
 &0.0000402329 y^2 z^2 - 0.000127679 y^2 z - \\
 &0.0000161955 y^2 - 0.000073208 y z^3 - \\
 &0.000017158 y z^2 + 0.0000147334 y z - 0.0000238397 y + \\
 &0.0000921121 z^4 + 8.93405 * 10^{-6} z^3 - \\
 &0.0000141505 z^2 - 4.3314 * 10^{-6} z + 0.00999411
 \end{aligned}$$

By[x, y, z] = 0.0268359 x^4 - 0.00302139 x^3 y -

$$\begin{aligned}
 &0.000204175 x^3 z + 0.00103806 x^3 - \\
 &0.00371461 x^2 y^2 - 0.000652372 x^2 y z - \\
 &0.000149514 x^2 y + 0.00158714 x^2 z^2 - \\
 &0.000157125 x^2 z - 0.000501187 x^2 + 0.00175021 x y^3 + \\
 &0.0017089 x y^2 z - 0.0000988992 x y^2 - \\
 &0.000631617 x y z^2 + 0.000135348 x y z + \\
 &0.000019961 x y + 0.0000245081 x z^3 + \\
 &0.0000455717 x z^2 - 0.0000218312 x z + \\
 &0.0000171986 x + 0.000382908 y^4 + 0.00241129 y^3 z - \\
 &0.0000776316 y^3 - 0.000983621 y^2 z^2 + \\
 &0.000140354 y^2 z + 0.0000143666 y^2 - \\
 &0.00015475 y z^3 - 0.000108017 y z^2 + 0.0000241265 y z +
 \end{aligned}$$

$$\begin{aligned}
& 2.27689 * 10^{-6} y + 0.00137053 z^4 + 0.000170811 z^3 - \\
& 0.0000954465 z^2 - 0.0000409141 z + 0.0000783448 \\
\text{Bz}[x, y, z] = & -0.0128185 x^4 - 0.00447119 x^3 y + \\
& 0.00107257 x^3 z - 0.0010172 x^3 - 0.00367736 x^2 y^2 + \\
& 0.00354084 x^2 y z - 0.00168606 x^2 y - \\
& 0.00215371 x^2 z^2 + 0.0000919004 x^2 z + \\
& 0.000125783 x^2 + 0.00924704 x y^3 + 0.0009836 x y^2 z - \\
& 0.00139734 x y^2 - 0.00174368 x y z^2 + \\
& 0.000296373 x y z - 0.000164484 x y + 0.000318853 x z^3 - \\
& 0.00015392 x z^2 + 2.95346 * 10^{-6} x z + \\
& 0.0000386955 x - 0.0153014 y^4 - 0.00053377 y^3 z - \\
& 0.000258662 y^3 - 0.00326318 y^2 z^2 + \\
& 0.000419296 y^2 z + 0.000177718 y^2 + \\
& 0.000679854 y z^3 - 0.000143827 y z^2 + \\
& 7.80974 * 10^{-6} y z - 8.49923 * 10^{-7} y + \\
& 6.00385 * 10^{-6} z^4 + 0.0000317496 z^3 + \\
& 0.0000186191 z^2 - 1.02229 * 10^{-6} z + 0.000247686
\end{aligned}$$