Fit is as follows for 145 A solenoid setting: on-axis field is in T, distances are in

$$B_o(z) = m1 \cdot \left(\exp\left(-\left(\frac{z - m2}{m3} \right)^4 \right) + \exp\left(-\left(\frac{z + m2}{m3} \right)^4 \right) \right) + m4 \cdot \exp\left(-\left(\frac{z}{m5} \right)^4 \right)$$

—·— Bs, T

Data large solenoids

y = m1*exp(-(m0-m2)	
	Value
m1	0.15194
m2	0.10021
m3	0.10861
m4	0.13684
m5	0.23118
Chisq	0.0011255
R	0.99982

Bs, T — z,m

—·— Bs, T

Data large solenoids

y = m1*exp(-(m0-m2)^ 4/m3^ 4...		
	Value	Error
m1	0.15194	0.0033132
m2	0.10021	0.00025912
m3	0.10861	0.00026761
m4	0.13684	0.0036552
m5	0.23118	0.0011242
Chisq	0.0011255	NA
R	0.99982	NA

Bs, T — z,m