Incorporating measured radial field in simulation. Magnetic scalar potential is solution to 2D Laplace's equation Fit A_i , B_i to measured radial field at $r=r_0$ (Final2016RadialFieldsppm.txt)

$$\psi = A_0 r_0 ln(r) - \frac{1}{n} \sum_{i=1}^{n} [A_n \cos(n\phi) + B_n \sin(n\phi)] \frac{r_0^{n+1}}{r^n}$$

$$B_r = A_0 \frac{r_0}{r} + \sum_{i=1}^{n} [A_n \cos(n\phi) + B_n \sin(n\phi)] \left(\frac{r_0}{r}\right)^{n+1}$$

$$B_{\phi} = \sum_{i=1}^{n} [A_n \sin(n\phi) - B_n \cos(n\phi)] \left(\frac{r_0}{r}\right)^{n+1}$$

A(0:2)/68.9569,21.6858,30.4212/, B(0:2)/0,-28.6175,26.6923/