

**Erratum: Magnetic form factor, field map, and field distribution for a BCS type-II superconductor near its  $B_{c2}(T)$  phase boundary [Phys. Rev. B **87**, 134508 (2013)]**

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A mistake for the form factor normalization was made in our original draft. Equations (25), (31), (32), (35), (D5), (D6), (E4), and the expression for  $\tilde{a}$  in the second sentence of Sec. VII should be corrected by including the missing factor  $1/4\pi$ . Below we list the correct forms of the equations. This mistake does not change any of the conclusions in the published paper. It also does not affect the results presented in the figures.

$$B_{\mathbf{k}_{m,h}}^Z = -\frac{\mu_0 N_0 \Delta_0^2}{4\overline{B^Z}} \frac{(-1)^{mh} \exp(-n_{\mathbf{k}_{m,h}}^2)}{n_{\mathbf{k}_{m,h}}^2} 2\pi k_B T \times \sum_{\ell=0}^{\infty} \int_0^{\pi/2} \sin(\theta) g_{\ell}(\theta) d\theta, \quad (25)$$

$$B_{\mathbf{k}_{m,h}}^Z = -\frac{\mu_0 \sqrt{\pi} N_0 \Delta_0^2}{4\overline{B^Z}} \frac{(-1)^{mh}}{n_{\mathbf{k}_{m,h}}^3}. \quad (31)$$

$$B_{\mathbf{k}_{m,h}}^Z = -\mu_0 |M| \frac{\sqrt{\pi}}{2} \frac{(-1)^{mh}}{n_{\mathbf{k}_{m,h}}^3}. \quad (32)$$

$$\Delta_{Z,v} = \frac{3^{3/4} \mu_0 N_0 \Delta_0^2}{4\pi \overline{B^Z}} \sqrt{\sum_{(m,h) \neq (0,0)} \frac{1}{(m^2 + mh + h^2)^3}} = 0.4581 \frac{\mu_0 N_0 \Delta_0^2}{\overline{B^Z}}. \quad (35)$$

$$B_{\mathbf{k}_{m,h}}^Z = \frac{\pi \mu_0 N_0 \Delta_0^2 k_B T}{2\overline{B^Z}} (-1)^{mh} \exp(-n_{\mathbf{k}_{m,h}}^2) \times \sum_{\ell=0}^{\infty} \int_0^{\pi/2} \sin(\theta) i v''(i u_{\ell}) \frac{\partial u_{\ell}}{\partial (\hbar \omega_{\ell})} d\theta, \quad (D5)$$

$$B_{\mathbf{k}_{m,h}}^Z = -\frac{N_0 \mu_0 \Delta_0^2}{4\overline{B^Z}} \frac{(-1)^{mh}}{n_{\mathbf{k}_{m,h}}^2} \int_0^{\pi/2} \sin(\theta) h_{\ell}(\theta) d\theta, \quad (D6)$$

$$\tilde{a} = -\mu_0 \pi N_0 \Delta_0^2 k_B T \frac{\Lambda}{\overline{B^Z} \hbar v_F} = -\mu_0 N_0 \Delta_0^2 \frac{\tilde{c}}{2\overline{B^Z}}. \quad (E4)$$