[1]A. I. Golovashkin, K. V. Mitsen, and G. P. Motulevich, Zh. Eksp. Teor. Fiz. **68**, 1408 (1975) [Sov. Phys. JETP **41**, 701 (1975)].

[2]G. A. Sai-Halasz, C. C. Chi, A. Denenstein, and D. N. Langenberg, Phys. Rev. Lett. **33**, 215 (1974).

[3]O. M. Ivanenko and K. V. Mitsen, Preprint No. 189, Lebedev Physics Institute, Academy of Sciences of the USSR, Moscow, 1976.

[4]V. G. Baru and A. A. Sukhanov, Pis'ma Zh. Eksp. Teor. Fiz. **21**, 209 (1975) [JETP Lett. **21**, 93 (1975)].

[5]Jhy-Jiun Chang and D. J. Scalapino, Phys. Rev. B **10**, 4047 (1974).

[6]V. F. Elesin, Zh. Eksp. Teor. Fiz. **73**, 355 (1977) [Sov. Phys. JETP **46**, 185 (1977)].

[7]V. F. Elesin, Zh. Eksp. Teor. Fiz. **71**, 1490 (1976) [Sov. Phys. JETP **44**, 780 (1976)].

Translated by A. Tybulewicz

Erratum: Dipole magnetic interaction in plane Heisenberg magnetic substances [Sov. Phys. JETP 45, 291–294 (February 1977)]

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PACS numbers: 75.10.Jm, 99.10. + g

1. The renormalized correlator of the fluctuations in the magnetic field (accurate to terms $O(T^2)$ inclusive) is

$$G(k)=(k^2+R^{-1}Z^2k\sin^2\theta+hZ)^{-1} .$$

2. The equation of state takes the form

$$Z(R,h)=R^{-\Delta/(1-2\Delta)}F(hR^{(2-\Delta)/(1-2\Delta)}) ,$$

where the function $F(x)$ is given implicitly by

$$\ln F=\Delta\int_0^\infty k\,dk\{[k(k^2+kF^2)^{1/2}]^{-1}-[(k^2+Fx)(k^2+Fx+kF^2)]^{-1/2}\} . \qquad (1)$$

In weak fields, $x\ll 1$, the solution of (1) is

$$F(x)+\Delta x^{1/4}4\pi-{}^{1/2}\Gamma^2(3/4) .$$

The magnetic susceptibility is therefore $x\sim\Delta R^{1/2}h^{-3/4}$. The following formula is valid for arbitrary fields: