Correction to: The 3-Dimensional Fermi Liquid Description for the Iron-Based Superconductors

Setsuo Misawa¹

Published online: 4 January 2019

© Springer Science+Business Media, LLC, part of Springer Nature 2019

Correction to: J Low Temp Phys (2018) 190:45–66 <https://doi.org/10.1007/s10909-017-1811-1>

The original version of this article unfortunately contained errors in equation and text.

In section 5, the heading “Nearly Ferromagnetic Ba (Fe_{1-x}Co_x)₂As₂” should read as “Paramagnetic Ba (Fe_{1-x}Co_x)₂As₂”.

Equation (5.1) should read as

$$\frac{\chi(0)}{\gamma(0)} = \frac{3}{\pi^2} \frac{\mu_B^2}{k_B^2} \frac{1}{1 + F_0^a}, \quad (5.1)$$

Equation (5.5) should read as

$$F_0^a = 1.91. \quad (5.5)$$

Sentences which follow Eq. (5.5) should read: It is remarkable that the system is not nearly antiferromagnetic, but paramagnetic. The frequently mentioned statement that, because of the antiferromagnetic fluctuations, the system tends to be a non-Fermi liquid is not applicable to this system.

In the caption of Fig. 7, LaFe_{1-x}Co_xAs_{0.89}Fe_{0.11} should read LaFe_{1-x}Co_xAsO_{0.89}F_{0.11}.

In the reference section, the reference no 23 should read as “23. T. Okabe, Electrical conductivity of Fermi liquids, I and II. J. Phys. Soc. Jpn. 67, 2792–4178 (1998)”.

The original article can be found online at <https://doi.org/10.1007/s10909-017-1811-1>.

✉ Setsuo Misawa
fermild@gmail.com

¹ Department of Physics, College of Science and Technology, Nihon University, Kanda-Surugadai, Tokyo 101-8308, Japan