



**Erratum: Quantum tricriticality in antiferromagnetic Ising model with transverse field:
A quantum Monte Carlo study [Phys. Rev. B **92**, 174419 (2015)]**

Yasuyuki Kato  and Takahiro Misawa 



(Received 3 February 2023; published 17 February 2023)

DOI: [10.1103/PhysRevB.107.059903](https://doi.org/10.1103/PhysRevB.107.059903)

In our paper, there are typographical errors in the equations below Eq. (3) and in Eq. (4) in the main text. The correct equations for the former are

$$\begin{aligned}
 f_0 &= -\Delta, \\
 \frac{r}{2} &= \frac{1}{2}J_+ \left(1 - \frac{\Gamma^2 J_+}{\Delta^3} \right), \\
 \frac{u}{4} &= \frac{(\Gamma^2 - 4H^2)\Gamma^2 J_+^4}{8\Delta^7}, \\
 \frac{v}{6} &= \frac{(12\Gamma^2 H^2 - 8H^4 - \Gamma^4)\Gamma^2 J_+^6}{16\Delta^{11}}, \\
 \Delta &= \sqrt{\Gamma^2 + H^2}.
 \end{aligned}$$

The correct equations for the latter are

$$r \simeq \frac{\sqrt{5}}{4}\delta_\Gamma + \frac{3\sqrt{5}}{4}\delta_H, \quad u \simeq \frac{25\sqrt{5}}{32}\delta_\Gamma - \frac{25\sqrt{5}}{16}\delta_H. \quad (4)$$

These errors do not affect our main conclusion.