

**Erratum: Dynamic phase transitions in the anisotropic  $XY$  spin system  
in an oscillating magnetic field  
[Phys. Rev. E **66**, 036123 (2002)]**

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(Received 8 November 2002; published 29 January 2003)

DOI: 10.1103/PhysRevE.67.019901

PACS number(s): 64.60.-i, 05.45.-a, 75.60.-d, 99.10.Cd

Some equations below Eq. (A9) on pp. 14 and 15 of the paper need to be corrected. The expressions for  $\tan \alpha_2$  and  $\tan \alpha_3$  should be

$$\tan \alpha_2 = -\frac{\Omega}{2\gamma}, \quad \tan \alpha_3 = \frac{\Omega[4\gamma(2\gamma-1) - \Omega^2]}{(5\gamma-1)\Omega^2 + 4\gamma^2(1-\gamma)}.$$

The expressions for  $A$  and  $B$  can be reduced to

$$A = -\frac{1}{4(4\gamma^2 + \Omega^2)\sqrt{1-\gamma}}, \quad B = \frac{1}{4(\Omega^2 + 4\gamma^2)} \sqrt{\frac{1-\gamma}{\Omega^2 + (1-\gamma)^2}}.$$

It should be noted that after the change the shape of the trajectory in Fig. 11(b) remains the same since it does not depend on  $\alpha_2$  or  $\alpha_3$ . The authors thank N. Fujiwara for pointing out the errors.