

Random walks in the presence of oriented random forces

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CORRIGENDUM

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V K Dugaev and S V Kosyachenko 1989 J. Phys. A: Math. Gen. 22 2597-600

There is a miscalculation in equations (9). The correct form should be written as

$$\frac{d\tilde{g}_1}{d\xi} = \varepsilon\tilde{g}_1 - 2\tilde{g}_1^2 + \tilde{g}_1\tilde{g}_2 \quad \frac{d\tilde{g}_2}{d\xi} = \varepsilon\tilde{g}_2 - 2\tilde{g}_2^2 + \tilde{g}_1\tilde{g}_2.$$

As a result the fixed point $\tilde{g}_1 = \tilde{g}_2 = \varepsilon$ is stable, and the system follows the isotropic behaviour at large times.