Corrigendum: Stochastic resonance in a parallel array of linear elements

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In this paper, we point out the errors occurring in the paper (Dong X J 2009 *Chin. Phys.* B **18** 70) and present a correct conclusion.

Keywords: parallel array of linear elements, stochastic resonance, signal-dependent noise

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In a recent paper,[1] we have studied the stochastic resonance (SR) phenomenon in a parallel array of linear elements with noise. One of the results in the paper shows that the SR appears with signal-dependent noise. However, in order to test the robustness of the model, we have further investigated it and found an error in the paper, [1] Fig. 2 being mistaken. So the corresponding conclusion made in that paper is incorrect. Here we amend this figure (Fig. 2) and correspondingly present a correct conclusion.

From Fig. 2 we can draw the conclusion that the SR cannot appear in a parallel array of linear elements with signal-dependent noise. The correctnesses of remaining conclusions made in the paper[1] are not influenced by the error, they being still correct.

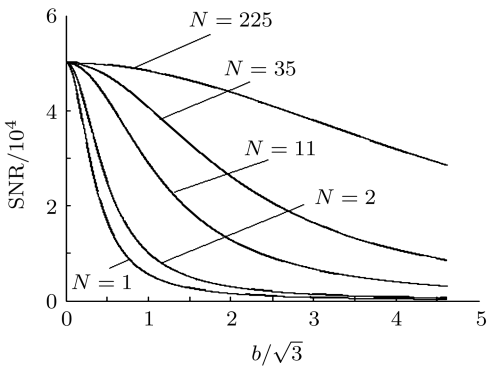


Fig. 2. Curves for output SNR versus additive noise root-mean-square amplitude $b/\sqrt{3}$ with signal-dependent noise and $m \neq 0 (A = 5, c = 0.3, a = 0.1, T_{\rm s} = 1, n = 1, m = 0.3)$.

References

[1] Dong X J 2009 *Chin. Phys.* B **18** 70

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