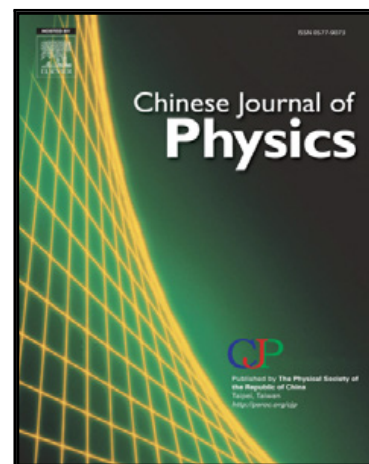


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A weak signal detection method based on adaptive parameter-induced tri-stable stochastic resonance

Yi Wang , Shangbin Jiao , Qing Zhang , Shang Lei , Xiaoxue Qiao

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December 11, 2017

RE: “A weak signal detection method based on adaptive parameter-induced tri-stable stochastic resonance” by Yi Wang, Shangbin Jiao, Qing Zhang, Xiaoxue Qiao

Dear Editor,

Please consider this research paper for possible publication in Chinese Journal of Physics. The contribution of this paper is our original work and all authors have agreed to the submission of this work to Chinese Journal of Physics. The paper has not been published and is not under consideration for publication by another journal.

Sincerely yours,

Yi, Wang, MS

Master

Highlight

- An adaptive parameter-induced tri-stable SR detection method is proposed.
- The dynamic characteristic of tri-stable SR systems is analyzed by the R .
- Three parameters are optimized simultaneously by differential evolution particle swarm optimization(DEPSO).
- Engineering application demonstrates the effectiveness of the proposed method.

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