

Accepted Manuscript

Stochastic resonance in an asymmetric bistable system driven by multiplicative and additive trichotomous noises

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PII: S0577-9073(16)30272-6
DOI: [10.1016/j.cjph.2017.03.015](https://doi.org/10.1016/j.cjph.2017.03.015)
Reference: CJPH 213



To appear in: *Chinese Journal of Physics*

Received date: 4 June 2016
Revised date: 8 March 2017
Accepted date: 8 March 2017

Please cite this article as: Bingchang Zhou , Dandan Lin , Stochastic resonance in an asymmetric bistable system driven by multiplicative and additive trichotomous noises, *Chinese Journal of Physics* (2017), doi: [10.1016/j.cjph.2017.03.015](https://doi.org/10.1016/j.cjph.2017.03.015)

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Highlights

- SR and stochastic anti-resonance exist in this system.
- The asymmetry of the potential can weaken the phenomenon of SR.
- It is more sensitive to control the SR by adjusting the additive noise intensity.
- A large signal amplitude leads to promoting the SR phenomenon.
- A large signal frequency suppresses the occurrence of SR.

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