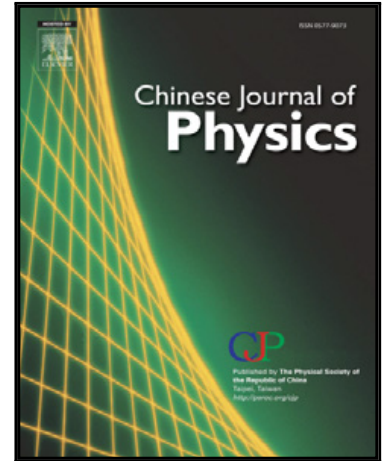


## Accepted Manuscript

Stochastic resonance for a fractional linear oscillator with two-kinds of fractional-order derivatives subject to multiplicative and signal-modulated noise

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PII: S0577-9073(16)30353-7  
DOI: [10.1016/j.cjph.2016.11.014](https://doi.org/10.1016/j.cjph.2016.11.014)  
Reference: CJPH 189



To appear in: *Chinese Journal of Physics*

Received date: 4 July 2016  
Revised date: 8 November 2016  
Accepted date: 8 November 2016

Please cite this article as: Jianqu Zhu , Weidong Jin , Feng Guo , Stochastic resonance for a fractional linear oscillator with two-kinds of fractional-order derivatives subject to multiplicative and signal-modulated noise, *Chinese Journal of Physics* (2017), doi: [10.1016/j.cjph.2016.11.014](https://doi.org/10.1016/j.cjph.2016.11.014)

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**Highlights**

A fractional linear oscillator with two-kinds of fractional-order derivatives is investigated.

The output-gain is a non-monotonic function of the exponents of the fractional-order derivatives.

The effect of the two exponents on the OAG is different.

The output-gain varies non-monotonically with the driving frequency.

The output-gain behaves non-monotonically with the friction coefficients.

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