

## Giant-Resonance for a Four-Dimensionally Coupled System with Dichotomous Noise

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Abstract: In this paper, we investigate a four-dimensionally coupled system driven by dichotomous noise. A new kind of stochastic resonance is found, for which the response of the system to the input signal can be hugely intensified. We call it "giant-resonance".

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Key words: giant-resonance, coupled system, dichotomous noise

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