

## Accepted Manuscript

Stability and bifurcation of delayed bidirectional gene regulatory networks with negative feedback loops

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PII: S0577-9073(17)31560-5  
DOI: [10.1016/j.cjph.2018.04.003](https://doi.org/10.1016/j.cjph.2018.04.003)  
Reference: CJPH 496



To appear in: *Chinese Journal of Physics*

Received date: 30 November 2017  
Revised date: 25 March 2018  
Accepted date: 3 April 2018

Please cite this article as: Qiang Lai, Stability and bifurcation of delayed bidirectional gene regulatory networks with negative feedback loops, *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.04.003](https://doi.org/10.1016/j.cjph.2018.04.003)

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**Highlights**

- Delayed bidirectional gene networks with negative feedback loops are proposed.
- The uniqueness of the positive equilibrium of the networks is determined.
- The delay independently stability of the gene regulatory networks are verified.
- The existence criterions of Hopf bifurcation of the networks are presented.

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