

## Accepted Manuscript

Exponential extinction of a stochastic predator–prey model with Allee effect

Beibei Zhang, Hangying Wang, Guangying Lv

PII: S0378-4371(18)30619-8  
DOI: <https://doi.org/10.1016/j.physa.2018.05.073>  
Reference: PHYSA 19613

To appear in: *Physica A*

Received date: 5 March 2018  
Revised date: 20 April 2018

Please cite this article as: B. Zhang, H. Wang, G. Lv, Exponential extinction of a stochastic predator–prey model with Allee effect, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.05.073>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**\*Highlights (for review)**

Highlight:

1. Allee effect is considered in our model;
2. Noise effect is considered in our model;
3. Expectations effect is considered in our model;
4. Global existence and uniqueness are obtained;
5. sufficient conditions for exponential extinction are established.

Download English Version:

<https://daneshyari.com/en/article/7374759>

Download Persian Version:

<https://daneshyari.com/article/7374759>

[Daneshyari.com](https://daneshyari.com)