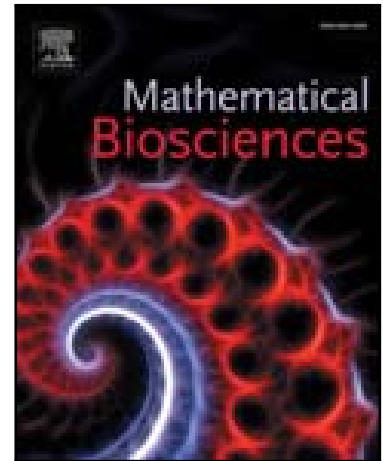


Accepted Manuscript

Patterns induced by super cross-diffusion in a predator-prey system with Michaelis-Menten type harvesting

Biao Liu, Ranchao Wu, Liping Chen

PII: S0025-5564(17)30507-2
DOI: [10.1016/j.mbs.2018.02.002](https://doi.org/10.1016/j.mbs.2018.02.002)
Reference: MBS 8027



To appear in: *Mathematical Biosciences*

Received date: 20 September 2017
Revised date: 6 December 2017
Accepted date: 17 February 2018

Please cite this article as: Biao Liu, Ranchao Wu, Liping Chen, Patterns induced by super cross-diffusion in a predator-prey system with Michaelis-Menten type harvesting, *Mathematical Biosciences* (2018), doi: [10.1016/j.mbs.2018.02.002](https://doi.org/10.1016/j.mbs.2018.02.002)

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

- Super cross-diffusion is introduced into predator-prey model.
- Turing instability of such model is analyzed.
- Amplitude equations are derived and pattern selection is performed.

Download English Version:

<https://daneshyari.com/en/article/8877060>

Download Persian Version:

<https://daneshyari.com/article/8877060>

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