

## Accepted Manuscript

Vegetation pattern formation in seminal systems due to internal competition reaction between plants

Xiaoli Wang, Guohong Zhang

PII: S0022-5193(18)30424-7  
DOI: <https://doi.org/10.1016/j.jtbi.2018.08.043>  
Reference: YJTBI 9611



To appear in: *Journal of Theoretical Biology*

Received date: 14 April 2018  
Revised date: 27 August 2018  
Accepted date: 29 August 2018

Please cite this article as: Xiaoli Wang, Guohong Zhang, Vegetation pattern formation in seminal systems due to internal competition reaction between plants, *Journal of Theoretical Biology* (2018), doi: <https://doi.org/10.1016/j.jtbi.2018.08.043>

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## Highlights

- A new formation mechanism of banded vegetation on hillsides of semiarid area is proposed.
- The stronger internal competition reaction between plants leads to increase of wavelength of the vegetation stripes.
- The migration speed of the vegetation stripes decreases with the increase of the internal competition intensity.

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