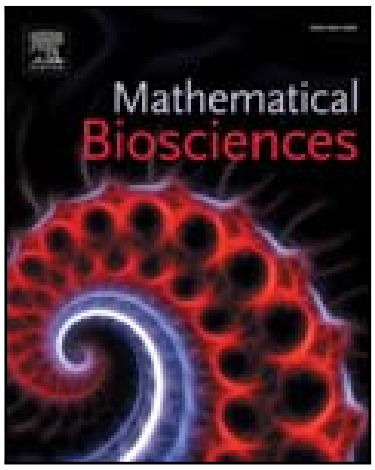

Models to assess how best to replace dengue virus vectors with Wolbachia-infected mosquito populations

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Highlights

- Now various strains of *Wolbachia*-infected vectors are released in dengue areas.
- Models with and without augmentation for dengue control are proposed.
- Stability analysis shows there are backward bifurcations and multiple attractors.
- Initial values and release methods affect the success of population replacement.
- Suitable *Wolbachia* and release methods are needed for the control of dengue virus.