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Effects of toxin delay on the dynamics of a phytoplankton zooplankton model

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## Highlights

- A novel Phytoplankton Zooplankton model with the impact of toxin is introduced.
- Stability of the positive equilibrium of the system is obtained.
- Numerical simulations and sensitivity analysis are performed.
- Our results show that toxin plays an important role on deriving the complex dynamics.

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