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Existence and global attractivity of positive periodic solution in Lotka–Volterra competition systems with deviating argument

In this talk, we consider the periodic Lotka–Volterra competition systems with deviating arguments. We present some sufficient conditions, and sufficient and necessary conditions for a special case, for existence of a positive periodic solution. We also establish some $3/2$ type criteria for the global attractivity of the positive periodic solution.

This is joint work with Xianhua Tang.