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Dynamics of the stochastic low concentration trimolecular oscillatory chemical system with jumps

Yongchang Wei, Qigui Yang

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Highlights

- By Lyapunov technique, the existence-uniqueness global positive solution and the asymptotic stability in mean square of this system are established.
- The existence of random attractor of this system is showed.
- The estimation of top Lyapunov exponent of the corresponding system and simple tempered random attractor are obtained.
- Some numerical simulations are given to illustrate the presented results.

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