Positive Entropy of a Coupled Lattice System Related with Belusov-Zhabotinskii Reaction

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In this paper we present a lattice dynamical system stated by K. Kaneko in [Phys. Rev. Lett., 65, 1391-1394, 1990] which is related to the Belusov-Zhabotinskii reaction. We prove that this CML (Coupled Map Lattice) system has positive topological entropy for zero coupling constant.

Key Words: coupled map lattice, positive topological entropy