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Self-Organization in ‘Rock-Paper-Scissors’ game

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Self-organization is a process of attraction and repulsion in which the internal organization of a system, normally an open system, increases in complexity without being guided or managed by an outside source. Self-organizing systems typically (but not always) display emergent properties. Many of systems in nature, such as out of equilibrium patterns of biodiverse and ecological systems are provided by the ‘rock-paper-scissors’ game. ‘Rock-paper-scissors’ game is a cyclic competition of species. Here, we demonstrate that a model originally introduced by May and Leonard, within interaction particle approach, in the continuum limit, is captured by a set of stochastic partial differential equations.

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