A SURVEY ON STABLY DISSIPATIVE
LOTKA–VOLTERRA SYSTEMS WITH AN
APPLICATION TO INFINITE DIMENSIONAL
VOLterra equations

Waldyr M. Oliva

The present paper is dedicated to Jaume Llibre, Luis Magalhães and Carlos Rocha, on the occasion of their 60th birthdays.

Abstract: For stably dissipative Lotka–Volterra equations the dynamics on the attractor are Hamiltonian and we argue that complex dynamics can occur. We also present examples and properties of some infinite dimensional Volterra systems with applications related with stably dissipative Lotka–Volterra equations. We finish by mentioning recent contributions on the subject.

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