

Integrability of Quadratic Lotka-Volterra System in \mathbb{C}^2 at the Critical Points Away from the Origin

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We consider the integrability of quadratic Lotka-Volterra system in the complex domain at the critical points away from the origin which were previously considered by C. Christopher and C. Rousseau. We relate the integrability mechanisms with the existence of invariant algebraic curves found by J.M. Ollagnier.