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Controllability of a model of microorganismal flow culture with in inertness and antagonistic system of Volterra type near a nontrivial equilibrium point

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Controllability of two mathematical models is examined: a linearized Volterra-Verhulst equation system describing coexistence of two antagonistic animal species and a system describing a homogenous culture of microorganisms under flow conditions. Controlability of the both models is shown.