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Asymmetric dispersal and evolutionary selection in a heterogeneous environment

Abstract: Biological organisms leave their habitat when the environment becomes harsh. The essence of a biological dispersal is not in the size, but in the capability to adjust to the environmental changes. In nature, conditional asymmetric dispersal strategies appear due to the spatial and temporal heterogeneity in the environment. In this talk we will see that such a dispersal strategy is evolutionary selected in the context two-patch problem of Lotka-Volterra competition model.