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Equilibria in a Dipersal Model for Structured Populations

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Abstract: We derive a model for structured population with a two-phase life cycle. Growth and reproduction occur during the first phase. The first phase is followed by a dispersal phase in which individuals are allowed to move throughout a habitat. Also, we prove the existence of a branch of positive equilibria using bifurcation results of Rabinowitz.

Key Words: Integro-difference equations, Dynamical systems, Dispersion, Structured populations



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