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Victor Padron* (padron@ula.ve), Universidad de Los Andes, Facultad de Ciencias,
Departamento de Matematicas, 5101 Merida, Venezuela. *Effect of aggregation on population
recovery modeled by a forward-backward pseudoparabolic equation.*

In this paper we study a forward-backward pseudoparabolic equation, as a model of aggregating population. We will show that the aggregating mechanism induced by the negative diffusivity allows the survival of a species in danger of extinction. Numerical simulations suggest that the solutions stabilize asymptotically in time to a not necessarily homogeneous stationary solution. (Received March 01, 2004)