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*Existence-uniqueness and monotone approximation for a phytoplankton-zooplankton aggregation model.*

In this talk, we study a model that describes the dynamics of phytoplankton and zooplankton prey-predator system within the context of phytoplankton aggregation. Existence-uniqueness results of the solution are established via a comparison principle and the upper-lower solution technique. (Received September 22, 2005)