

1096-39-2097      **Justin Wright\*** (jw1018@plymouth.edu). *Weak Enveloping and Global Attractors for Periodic Dynamical Systems*. Preliminary report.

Periodically forced difference equations and their application to population biology have been a topic of interest within the dynamical systems community over the past decade. It has been previously established that P. Cull's concept of an enveloping function can be used to guarantee the global stability of a fixed point for a periodic dynamical system of population models. We extend our work to a class of functions that are more general than population models using a generalized concept of enveloping. We use this concept to show that a periodic dynamical system of perturbations of a hyperbolic population model has a globally attracting geometric cycle. (Received September 17, 2013)