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Saber N Elaydi* (selaydi@trinity.edu), 20 Academic Support Bldg B, Department of Mathematics, Howard University, Washington, DC 20059. *Nonautonomous delay difference equations and applications to population models*. Preliminary report.

In this talk we consider extending the theory of nonautonomous difference equations to nonautonomous scalar difference equations with delays. In particular, we study the presence of global attractors in periodic scalar delay difference equations with monotonicity. Applications to various population models, including the periodically forced Beverton-Holt model with delays and models with periodic harvesting or stocking, will be discussed. (Received September 28, 2005)