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Competition Models with Allee effects. Preliminary report.

We propose new discrete competition models with Allee effects. The talk will present results on stability and bifurcation of fixed and periodic orbits. It will include both theoretical and numerical methods. One of the effective tools in our study is the the construction of associated skew-product discrete dynamical systems. Finally, the question of whether periodic forcing will result in the attenuation (deleterious effect) or resonance (beneficial) in competition models, will be addressed. (Received September 20, 2009)