Non-linear Pattern Formation in Modeling Competing Populations

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Abstract: In this seminar we consider a model of two competing species with non-local asymmetric coupling. We consider how the degree of non-locality and asymmetry effect the coexistence of the two species and the stability of this coexistence.

(Bio) Dr. Tanzy received B.S. degrees in both Mathematics and Physics from the Georgia Institute of Technology. He went on to graduate studies at Northwestern University earning both a Masters and Doctorate in Applied Mathematics. At Northwestern Dr. Tanzy published 4 papers in the fields of combustion engineering and population modelling. Since earning his doctorate Dr. Tanzy has become an Assistant Professor at Delaware State University and is continuing his work on population modeling.