

1134-37-142

**Brian Ryals\*** (bryals@csu.edu). *Global Stability in the 2D Ricker Competition Model.*

This talk will focus on a study of the 2D Ricker Competition Model, a four parameter system. The interest will be determining conditions on these four parameters where one has global attraction to the coexistence fixed point. We will summarize prior work on the model where a rather strict set of assumptions were used, and show that there is a large set of parameters not covered in previous studies. We will show numerically some of the troublesome issues one encounters in the more general case, in spite of the seemingly simple appearance of the equations. (Received August 31, 2017)