

1020-35-65

Anthony W Leung* (anthony.leung@uc.edu), Anthony W. Leung, Department of Mathematical Sciences, University of Cincinnati, Cincinnati, OH 45221, and **Xiaojie Hou** and **Yi Li**. *Exclusive traveling waves for competitive reaction-diffusion systems and their stabilities*. Preliminary report.

We study the existence, uniqueness and asymptotic behavior, as well as the stability of a special kind of traveling wave solutions for competitive PDE systems. The traveling waves are exclusive in the sense that as the variable goes to infinities, different species are close to extinction or carrying capacity. (Received August 11, 2006)