

1125-35-652

Kun Zhao* (kzhao@tulane.edu). *Analysis of a dissipative hyperbolic system arising from biology.*

In this talk, I will present a group of recent results concerning the rigorous analysis of a nonlinear PDE model arising from biosciences, which has primary applications in chemotaxis research. In particular, global well-posedness, long-time asymptotic behavior, diffusion limits, and boundary layer formation of classical solutions will be discussed. (Received September 08, 2016)