1117-35-537 **Kun Zhao*** (kzhao@tulane.edu). *Analysis of a Dissipative Hyperbolic System Arising From Chemotaxis Research.*

In this talk I will report some recent results on the analysis of a dissipative hyperbolic system derived from a Keller-Segel type model for repulsive chemotaxis, which resembles certain feature of classic models in mathematical fluid dynamics. Reported results include, but are not limited to, global well-posedness, long-time asymptotic behavior, vanishing diffusion limit, and formation of boundary layer, in one and/or multiple space dimensions. (Received January 19, 2016)