

1109-35-116 **Zhongwei Shen*** (zzs0004@auburn.edu), Auburn University, 221 Parker Hall, Auburn, AL
36830. *Front propagation in reaction-diffusion equations.*

Front propagation phenomenon in reaction-diffusion equations has been attracting a lot of study due to its applications in scientific areas such as biology, chemical kinetics, combustion theory and so on. In this talk, I will present the developments of front propagation in diffusive media of monostable type, bistable type and ignition type, with the focus on traveling waves in homogeneous media and their generalizations in heterogeneous media. (Received January 27, 2015)