1125-92-2131   **Jia Li*** (`li@math.uah.edu`), Department of Mathematical Sciences, University of Alabama in Huntsville, Huntsville, AL 35899. *Mathematical modeling and dynamics of interactive wild and sterile mosquito populations and release strategies.*

In this talk, several mathematical models for the interactive wild and sterile mosquitoes will be presented. We incorporate different strategies for the releases of sterile mosquitoes in the models, including impulsive releases, and investigate the model dynamics. We illustrate how these different release strategies are applied in control of mosquito populations. We then compare the impacts of these control measures. (Received September 19, 2016)