1108-60-499 **Dang Hai Nguyen*** (dangnh.maths@gmail.com), George Yin and Du Huu Nguyen. Some asymptotic results on a stochastic predator-prey model with Beddington- DeAngelis functional response.

This talk considers a stochastic predator-prey system. The main effort focuses on asymptotic properties. We obtain sufficient and almost necessary conditions for permanence and ergodicity of the stochastic predator-prey model with Beddington-DeAngelis functional response for both non-degenerate and degenerate diffusions. We also prove the convergence in total variation norm of the transition probability to an invariant probability measure and describe the support of the invariant measure. Comparisons to existing literature and related matters to other stochastic predator-prey models are also given. (Received January 20, 2015)