1096-39-715 **Laila Assas*** (aslaila201@yahoo.com), **S Elaydi**, **E Kwessi**, **G Livadiotis** and **D Ribble**. *On the stability and bifurcation of A predator-prey model with Allee effect.* Preliminary report.

We consider a predator-prey model with refuge that possesses the Allee effect. The most common type of spatial refuge is when a constant proportion of the prey population is protected from predation. In this talk, we investigate the local and global dynamics of the model. This includes, among other things, an investigation of bifurcation and invariant manifolds. (Received September 09, 2013)