

1109-35-303

Shangbing Ai* (ais@uah.edu), 301 Sparkman Drive, Huntsville, AL 35899, and **Reem Albashaireh**. *Traveling wave solutions for a chemotaxis model*. Preliminary report.

The talk concerns the existence and stability of traveling wave solutions for a chemotaxis model, which consists of a coupled reaction-diffusion equations. Existence of traveling waves is obtained by the construction of an invariant set, and the stability of these waves (in some special cases) is proved by the study of their spectrum. (Received February 03, 2015)