B. Buffoni – B. Dacorogna - H.M Nguyên - Section Mathématiques

SEMINAIRE D'ANALYSE

> **VENDREDI 11 Octobre 2013 à 15h15 - salle MA A331**

Professeur **ANGELA STEVENS** *(*Universität Münster, Allemagne) donnera une conférence sur le thème:

«Blowup and global solutions in
mathematical models for cellular motion »

Pattern formation and self-organization is a fundamental feature of developmental processes in biology. These give rise to questions of the characterization of blowup and the existence of pattern forming globald solutions in the respective mathematical models.

In this talk nonlinear PDE systems and PDE-ODE systems for chemotactic like cellular motion will be discussed, their qualitative behavior will be analyzed and connections to self-attracting reinforced random walks will be illustrated.

This talk summarizes joint works with E. Espejo, K. Kang, and J.J.L. Velazquez

Lausanne, le 27 septembre 2013
BD/VL