

Name: Dr. Chueh-Hsin Chang

Contact Information:

Taida Institute for Mathematical
Sciences, National Taiwan University,
Taipei 10617, Taiwan.

Email: d94221007@ntu.edu.tw

Phone: (02) 3366-2589



Research Interests:

1. Long-time asymptotic behaviors of Camassa-Holm equations,
2. Mathematical modelling and analysis of Keller-Segel equations.
3. Travelling waves of reaction-diffusion systems.

Education:

(1) PhD in Mathematics, National Taiwan University, 2012.

- Thesis Topic: Travelling wave solutions of competition-diffusion systems.
- Adviser: Professor Chiun-Chuan Chen
- Area of Study: Heteroclinic bifurcation, travelling waves.

(2) MS in Mathematics, National Chengchi University, 2005.

- Thesis Topic: Analysis on the duration of deep earthquakes
- Adviser: Professor Meng-Rong Li
- Area of Study: Existence of periodic solutions of differential equations.

(3) BS in Mathematics, National Taiwan University, 2001.

Invited talk:

1. "Travelling wave solutions of a free boundary problem for a two-species competitive model", at One Forum, Two Cities: Aspect of Nonlinear PDEs, Taida Institute for Mathematical Sciences, Taipei, Taiwan, August 29 - September 01, 2011 .
2. "Heteroclinic bifurcation in the three-species Lotka-Volterra competition-diffusion system" , at NTU-Inha 2012 Bilateral Conference on Analysis and Scientific Computing, Taida Institute for Mathematical Sciences, Taipei, Taiwan, February 16 - 17, 2012.

Publication List

Journal Publications:

1. C. H. Chang and C. C. Chen. Heteroclinic bifurcation in the three-species

Lotka-Volterra competition-diffusion system. (preprint)

2. C. H. Chang and C. C. Chen. Travelling wave solutions of a free boundary problem for a two-species competitive model. *Commun. Pure Appl. Anal.* (accepted)
3. M. R. Li and C. H. Chang. Analysis on the duration of deep earthquakes. *Taiwanese J. Mathematics*, 12(7) (2008), pp.1667—1680.