



Research Workshop on Solitons and Integrable Systems

Department of Mathematics, University of Texas Pan-American
Edinburg, Texas 78541-2999, USA

Date: March 8, 2008, Saturday, Time: 8:30am – 6:15pm

Room: MAGC 1.302, Contact: Dr. Zhijun(George) Qiao, qiao@utpa.edu or 381-3406

Agenda

8:30 – 8:45 am Welcome

Lokenath Debnath, Chair, Math Dept, UTPA

Andras Balogh, Assistant Chair, Math Dept, UTPA

8:45 – 9:45 am On Linear and Nonlinear Dispersive Waves

Lokenath Debnath, UTPA

9:45 – 10:00 am Café Break

10:00 – 10:45 am Transformations among Nonlinear PDEs

Hongyou Wu, Northern Illinois University

10:45 – 11:30 am Determinant Techniques for Soliton Equations

Wenxiu Ma, University of South Florida

11:30 – 1:30 pm Lunch Time

1:30 – 2:15 pm Integrable decompositions of the nonlinear Schroedinger equation

Ruguang Zhou, Vice President, Xuzhou Normal University

2:15 – 3:00 pm The Generalized Weierstrass System and an Application to the

Study of Deformations of Surfaces by Means of Integrable Hierarchies

Paul Bracken, UTPA

3:00 – 3:15 pm Café Break

3:15 – 4:00 pm A short pulse model equation and its multi-soliton solutions

Baofeng Feng, UTPA

4:00 – 4:45 pm Soliton interactions of two dimensional vector soliton systems

Kenichi Maruno, UTPA

4:45 – 5:30 pm Integrable cuspon and peakon equations

Zhijun Qiao, UTPA

*This research workshop is supported by College of Science and Engineering and Department of Mathematics, UTPA

*All interested faculty and students are welcome to attend the workshop