

Differential Equations Day at Mississippi State University

**Sponsors: Center for Computational Sciences
and**

Department of Mathematics & Statistics

November 5, 2007

Morning Session (High Performance Computing Collaboratory Room 30)

- 9:00 AM – 9:30 AM *The Existence of sign-changing solutions for a class of indefinite weight p -Laplacian boundary value problems*
Inbo Sim
(Faculty, Pusan National University, South Korea)
- 9:30 AM – 10:00 AM *Sandwich Pairs for p -Laplacian Systems*
Kanishka Perera
(Faculty, Florida Institute of Technology)
- 10:00 AM – 10:15 AM BREAK
- 10:15 AM – 10:45 AM *Global multiplicity result for positive radial solutions of p -Laplacian system or exterior domain*
Eun Kyoung Lee
(Post doctoral Researcher, Pusan National University, South Korea)
- 10:45 AM – 11:15 AM *Efficient and Accurate Methods for Computing Lyapunov Characteristic Exponents*
Hubertus Von Bremen
(Faculty, California State Polytechnic University, Pomona)
- 11:15 AM – 11:45 AM *Nonexistence of positive solutions for a class of superlinear semipositone systems*
Maya Chhetri
(Faculty, University of North Carolina at Greensboro)
- 2:00 PM *Tour of HPCC*
- 3:30 PM *Reception at Department of Mathematics & Statistics*
(Allen Hall, 4th floor)
- 4:00 PM – 5:00 PM *Existence of multiple solutions for a singular quasilinear equation*
Peter Takac
(Faculty, University of Rostock, Germany)
(Allen 14)