Nonlinear PDE Workshop at Tohoku University

Date 24 afternoon - 26 morning, September, 2015
Place Kawai Hall, Mathematical Institute
Faculty of Sciences, Tohoku University

Program

24 September (Thursday)

13:30−14:30 PETER LINDQVIST (Norwegian University
of Science and Technology)
The unbounded supersolutions of the evolutionary
p-Laplace equation

14:40−15:30 KAZUSHIGE NAKAGAWA (Fukushima University)
Concavity properties of solutions for nonlinear
parabolic systems

15:50−16:40 SHINGO TAKEUCHI (Shibaura Institute of Technology)
Means and generalized trigonometric functions

16:50−17:40 MIEKO TANAKA (Tokyo University of Science)
Existence of a positive solution for problems with
(p, q)-Laplacian and convection term in $\mathbf{R}^N$

25 September (Friday)

10:00−11:00 PETER LINDQVIST (Norwegian University
of Science and Technology)
Viscosity solutions of the p-Laplace equation

11:10−12:10 OLIVIER LEY (INSA, Université de Rennes)
Gradient bounds and large time behavior for coercive
integro-differential Hamilton-Jacobi equations

13:30−14:20   Toshio Horiuchi (Ibaraki University)
Remarks on the strong maximum principle involving
p-Laplacian

14:30−15:00   Shota Tateyama (Tohoku University)
Weak Harnack inequality for fully nonlinear parabolic
PDE with unbounded ingredients

15:00−15:30   Takahiro Kosugi (Tohoku University)
Comparison principle for viscosity solutions of
singular parabolic equations

15:50−16:40   Satoshi Tanaka (Okayama University of Science)
Symmetry-breaking bifurcation for one-dimensional
Liouville type equations with weights

16:50−17:40   Masashi Misawa (Kumamoto University)
On a degenerate elliptic system and its heat flow

- reception at downtown -

26 September   (Satuarday)

10:10 −11:10   Tuomo Kuusi (Aalt University)
Nonlocal self-improving properties

11:20−12:10   Qing Liu (Fukuoka University)
A game-theoretic approach to convexity preserving
properties for nonlinear parabolic equations

Shigeaki Koike (Tohoku University)
e-mail: koike@math.tohoku.ac.jp
Tel&Fax: 022-795-5773