

3rd Chile-Japan Workshop on Nonlinear PDEs

Osaka University, Toyonaka Campus, Sigma Hall, Japan

December 7 (Mon)

Preliminary session

December 8 (Tue)

10:10 - 10:20 Opening

10:20 - 11:00 Raúl Manásevich (Universidad de Chile)

Solutions with prescribed number of zeros to a nonlinear elliptic equation with weights on \mathbb{R}^d

11:10 - 11:50 Tsukasa Iwabuchi (Osaka City University)

On the Large time behavior of small solutions for the critical Burgers equation

12:00 - 12:40 Carmen Cortázar (Pontificia Universidad Católica de Chile)

Nonnegative solutions of semilinear elliptic equations in half-spaces

Lunch

14:00 - 14:40 Yohei Sato (Saitama University)

The positive solutions for the nonlinear Schrödinger systems with mixed couplings

14:50 - 15:30 Ignacio Guerra (Universidad de Santiago)

Multiplicity of solutions for an elliptic equation with a singular nonlinearity and a gradient term

Break

15:50 - 16:30 Takashi Suzuki (Osaka University)

Blowup in infinite time for competitive system of chemotaxis

16:40 - 17:20 Kazuhiro Ishige (Tohoku University)

Minimal solutions of a semilinear elliptic equation with a dynamical boundary condition

December 9 (Wed)

10:20 - 11:00 Claudio Muñoz (Universidad de Chile)

Dispersive estimates for rational symbols and local well-posedness of the nonzero energy Novikov-Veselov equation

11:10 - 11:50 Junichi Harada (Akita University)

Simultaneous and nonsimultaneous blow-up for a semilinear parabolic system in higher dimension

12:00 - 12:40 Erwin Topp (Universidad Técnica Federico Santa María)

Some properties of zero-th order nonlocal operators approaching the fractional Laplacian

Lunch

14:00 - 14:40 Ryo Takahashi (Nara University of Education)

Blowup behavior for a degenerate elliptic sinh-Poisson equation with variable intensities

14:50 - 15:30 Alexander Quaas (Universidad Técnica Federico Santa María)

Large solutions for some local and non-local nonlinear elliptic equations

Break

15:50 - 16:30 Shingo Takeuchi (Shibaura Institute of Technology)

Multiple-angle formula of generalized trigonometric functions with two parameters

16:40 - 17:20 Mariel Sáez (Pontificia Universidad Católica de Chile)

On a fractional mean curvature flow

December 10 (Thu)

10:20 - 11:00 Ryuji Kajikiya (Saga University)

Symmetric solutions of semilinear elliptic equations

11:10 - 11:50 Manuel del Pino (Universidad de Chile)

Bubbling in the critical heat equation: the role of Green's function

12:00 - 12:40 Satoshi Tanaka (Okayama University of Science)

A symmetry-breaking bifurcation for a one-dimensional Liouville type equation

Lunch

14:00 - 14:40 Monica Musso (Pontificia Universidad Católica de Chile)

A non-compactness result on the fractional Yamabe problem in large dimensions

14:50 - 15:30 Kazunaga Tanaka (Waseda University)

A new deformation method for singular perturbation problems and applications

Break

15:50 - 16:30 Futoshi Takahashi (Osaka City University)

Scale invariance structures of the critical and the subcritical Hardy inequalities and their improvements

December 11 (Fri)

10:20 - 11:00 Yasuhito Miyamoto (University of Tokyo)

Structure of positive solutions for semilinear elliptic equations with supercritical growth

11:10 - 11:50 Marta García-Huidobro (Pontificia Universidad Católica de Chile)

Multiplicity results for sign changing bound state solutions of a semilinear equation

12:00 - 12:40 Hitoshi Ishii (Waseda University)

Metastability results for a quasi-linear parabolic equation with drift

December 12 (Sat)

Discussion