## RIMS Workshop

## Recent Trends in Ordinary Differential Equations and Their Developments

November 13–15, 2019

Room 111, Research Institute for Mathematical Sciences (RIMS), Kyoto University

Organizers:

Masakazu Onitsuka (Okayama University of Science) Hideaki Matsunaga (Osaka Prefecture University)

November 13 (Wednesday)	
14:00-14:45	Kazuki Ishibashi (National Institute of Technology, Hiroshima College) Nonoscillation of half-linear dynamic equations with mixed derivatives
15:00-15:45	Douglas Anderson (Concordia College, USA) The effects of discretization on Hyers–Ulam stability
16:00-16:45	Ryuji Kajikiya (Saga University) Existence of positive radial solutions for a semipositone elliptic equation
November 14 (Thursday)	
10:00-10:45	Jaqueline Godoy Mesquita (Universidade de Brasilia, Brazil) Relations between generalized ordinary differential equations and different types of functional differential equations
10:55-11:40	Rinko Miyazaki (Shizuoka University) Analysis of characteristic roots induced by a delayed feedback control for discrete time systems
11:50-12:35	Nguyen Van Minh (University of Arkansas at Little Rock, USA) Differentiation operator $d/dt$ and the asymptotic behavior of linear differential equations
14:00-14:45	Motohiro Sobajima (Tokyo University of Science) On test function method for semilinear wave equations with scale-invariant

damping

15:00-15:45 Hiroshi Matsuzawa (National Institute of Technology, Numazu College) Spreading and vanishing for a free boundary problem of a reaction diffusion equation with a multi-stable type nonlinearity in high space dimensions

16:00-16:45 Yutaka Kamimura (Tokyo University of Marine Science and Technology) Inverse scattering for an energy dependent, reflectionless potential

Banquet (18:00–)

## November 15 (Friday)

10:00–10:45 Shoichi Hasegawa (Osaka University) Separation phenomena of radial solutions to Lane–Emden equation on the hyperbolic space

10:55–11:40 Kanako Suzuki (Ibaraki University) Instability and diffusion-driven blowup in some reaction-diffusion-ODE systems

11:50–12:35 Kazuyuki Yagasaki (Kyoto University)
Bifurcations of homoclinic orbits in reversible systems

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