

Workshop Program

Monday, 26 March 2018

9:00-9:30	Norikazu SAITO	Variational analysis of the discontinuous Galerkin time-stepping method for parabolic equations
9:30-10:00	Yuki CHIBA	Discontinuous Galerkin method for an N-dimensional spherically symmetric Poisson equation
10:00-10:30	Jintao CUI	Finite Element Approximation of a Free Boundary Plasma Problem
coffee break		
11:00-11:30	Aymeric GRODET	Towards finite element computation of general minimal surfaces
11:30-12:00	Bangti JIN	Time stepping schemes for fractional evolution equations
free discussion		
14:00-14:30	Takahito KASHIWABARA	Several remarks on L^∞ -type error estimates of the finite element method
14:30-15:00	Buyang LI	Hodge decomposition of the dynamic Ginzburg-Landau equations in multi-connected nonsmooth domains
15:00-15:30	Kenta KOBAYASHI	The relation between Crouzeix-Raviart and Raviart-Thomas finite element methods
coffee break		
16:00-16:30	Shih-kang LIAO Xuefeng LIU	Optimal Estimation for the Fujino-Morley interpolation error constants
16:30-17:00	Takiko SASAKI	Numerical and mathematical analysis for the blow-up curve of solutions to 1-dimensional nonlinear wave equations
17:00-17:30	Issei OIKAWA	Remarks on some general convergence theorem in FEM
free discussion		

Tuesday, 27 March 2018

9:00-9:30	Xuefeng LIU	The a priori error estimation for divergence-free approximation solution of Stokes equation in 3D domain
9:30-10:00	Daisuke TAGAMI	Numerical computations of incompressible Navier-Stokes equations by a time-explicit particle methods
10:00-10:30	Chupeng MA	Energy conserving Galerkin finite element methods for the Maxwell-Klein-Gordon system
coffee break		
11:00-11:30	Shinya UCHIMI	Finite element methods for flow problems with small viscosity and remarks on implementation
11:30-12:00	Zhonghua QIAO	Discrete maximum principle of exponential time differencing schemes for nonlocal Allen-Cahn equations

Wednesday 28 March 2018

9:00-9:30	Yoshitaka WATANABE	A higher order error estimation of the Poisson equation and its applications
9:30-10:00	Guanyu ZHOU	The finite element method with the Crouzeix-Raviart element for the Stokes problem with the slip boundary condition on a curved boundary
10:00-10:30	Nobito YAMAMOTO Kouki NITTA	On numerical verification of existence of homoclinic orbits of dynamical systems of higher dimensional cases
coffee break		
11:00-11:30	Zhi ZHOU	Pointwise-in-time error estimates for an optimal control problem with subdiffusion constraint
11:30-12:00	Takuya TSUCHIYA	Error analysis of Lagrange interpolations on tetrahedrons