Program of Workshop on FEM

	Saturday August 9 2015
00.45 00.00	Saturday, August 8, 2015
08:45 am - 09:00 am	Opening Ceremony
00.00 am 00.25 am	Session 1
09:00 am - 09:25 am	Zhonghua Qiao Error Analysis of a Mixed Finite Element Method for The Molecular Beam Epitaxy Model
09:25 am - 09:50 am	Hengguang Li
07.20 am 07.00 am	Finite Element Approximations of Singular Solutions in the W_v^1 Norm
09:50 am - 10:15 am	Xingfeng Liu
	Compact Implicit Integration Factor Method for High Order Differential Equations
	Break
	2.00
	Session 2
10:30 am - 10:55 am	James Adler
	Numerical Approximation of Asymptotically Disappearing Solutions of Maxwell's Equations
10:55 am - 11:20 am	Yanlai Chen
11:20 am - 11:45 am	Superconvergence Properties of Variable-degree HDG Methods on nonconforming meshes
11:20 am - 11:45 am	Bo Dong A New Multiscale Discontinuous Galerkin Method for the One-dimensional Stationary
	Schrödinger Equation
	Lunch break
00.00	Session 3
02:00 pm - 02:25 pm	Abner Salgado Piecewise Polynomial Interpolation in Weighted Sobolev Spaces and Applications to
	Optimal Control Problems
02:25 pm - 02:50 pm	Xiaoming He
	Dual-porosity-Stokes Model and Finite Element Method for Coupling Dual-porosity Flow and Free Flow
02:50 pm - 03:15 pm	Wujun Zhang
	Convergence and Rates of Convergence for Monge-Ampere Equation
	Break
	Session 4
03:30 pm - 03:55 pm	Yifeng Xu
02.55	An Adaptive Finite Element Method for Reconstruction of the Robin Coefficient
03:55 pm - 04:20 pm	Huayi Wei Introduction to Two New Triangle Mesh Optimization Methods
04:20 pm - 04:45 pm	Yongke Wu
0 1.20 pm 0 1.15 pm	Superconvergence and Recovery Type a Posteriori Error Eestimation forHhybrid Stress
	Finite Element Method
04:45 pm - 05:10 pm	Zhengyu Zhang
	Introduction to Numerical Investigation of Cavitation Bubble

Sunday, August 9, 2015		
Session 5		
09:00 am - 09:25 am	Xiaoping Xie	
	Analysis of a Two-level Algorithm for HDG Methods for Diffusion Problems	
09:25 am - 09:50 am	Xuehai Huang	
	Quasi-optimal Convergence Rate for an Adaptive Hybridizable \$C^0\$ Discontinuous	
	Galerkin Method for Kirchhoff Plates	
09:50 am - 10:15 am	Wenrui Hao	
	A Reduced Basis Homotopy Continuation Method For Computing Multiple Solutions of Nonlinear Differential Equations	
	Nomineur Differential Equations	
	Break	
	Consider (
10.20 10.55 -	Session 6	
10:30 am - 10:55 am	Xiu Ye	
10:55 am - 11:20 am	New Class of Finite Element Methods: Weak Galerkin Methods	
10:55 alli - 11:20 alli	Shun Zhang A New Trace Inequality and Its Applications in Error Estimates of Discontinuous Galerkin	
	Methods	
11:20 am - 11:45 am	Andreas Vogel	
	The Finite Element / Finite Volume Software Framework UG4	
	Lunch break	
	Session 7	
02:00 pm - 02:25 pm	Wenjun Ying	
00.05 00.50	A Space-Time Adaptive Algorithm for Cardiac Electrical Dynamics	
02:25 pm - 02:50 pm	Jie Liu	
	A Second-order Stable Explicit Interface Advancing Scheme for FSI with Both Rigid and Elastic Structures and Its Application to Fish Swimming Simulations	
02:50 pm - 03:15 pm	Shuo Zhang	
0 2 100 pm 00110 pm	Some Results on Structure Preserving Finite Elements	
	Break	
	Session 8	
03:30 pm - 03:55 pm	Xiaobing Feng	
-	A Finite Element Method for Linear Elliptic PDEs in Non-divergence Form	
03:55 pm - 04:20 pm	Yunrong Zhu	
	Auxiliary Space Preconditioner for Linear Elasticity with Weakly Imposed Symmetry	
04:20 pm - 04:45 pm	Liuqiang Zhong	
	A-posteriori Error Analysis for a Staggered Discontinuous Galerkin Discretization of the	
04.45 nm 05.10 nm	Time-Harmonic Maxwell's Equations	
04:45 pm - 05:10 pm	Feng Wang On a Parallel Robin-Robin Iterative Method for the Mixed Finite Elements	
05:10 pm - 05:25 pm	Closing Ceremony	
03.10 hiii - 03.23 hiii	Glosting Ceremony	