Conference Schedule

September 4th, 2023 (Monday)			
9:30-9:45	**Opening**		
Time	**Chair**	**Speaker**	**Report Title**
9:45-10:30	Zaijiu Shang	Alexander Ostermann	Splitting methods for PDEs: analysis and applications
10:30-11:00	**Tea break + Photograph**		
11:00-11:45	Zaijiu Shang	Alexander Ostermann	Boundary corrected Strang splitting
11:45-14:00	**Lunch, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		
Time	**Chair**	**Speaker**	**Report Title**
14:00-14:45	Yifa Tang	Chengming Huang	Fractional polynomial collocation for third-kind Volterra integral equations with singularities
14:45-15:30	Yifa Tang	Dongling Wang	Completely monotonicity-preserving schemes for convolutional integrals and their applications
15:30-16:00	**Tea Break**		
16:00-16:45	Yifa Tang	Chunmei Su	A convexity-preserving and perimeter-decreasing parametric finite element method for the area-preserving curve shortening flow
16:45-17:30	Yifa Tang	Ruili Zhang	Symplectic methods for the guiding center dynamics of charged particle
18:00	**Banquet, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		
September 5th, 2023 (Tuesday)			
Time	**Chair**	**Speaker**	**Report Title**
9:30-10:15	Chengming Huang	Brynjulf Owren	Nonlinear stability of numerical methods on Riemannian manifolds: Part I
10:15-10:45	**Tea Break**		
10:45-11:30	Chengming Huang	Brynjulf Owren	Nonlinear stability of numerical methods on Riemannian manifolds: Part II
11:30-14:00	**Lunch, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		

Time	Chair	Speaker	Report Title
14:00-14:45	Zaijiu Shang	Xinyuan Wu	Structure-Preserving Exponential-type Runge-Kutta Integrators
14:45-15:30	Zaijiu Shang	Bin Wang	Geometric two-scale integrators for highly oscillatory system
15:30-16:00	**Tea Break**		
16:00-16:45	Zaijiu Shang	Xiaofei Zhao	Numerical methods for disordered NLS
September 6th, 2023 (Wednesday)			
Time	**Chair**	**Speaker**	**Report Title**
9:30-10:15	Xinyuan Wu	Elena Celledoni	An introduction to shape analysis and deep learning for optimal reparametrizations of shapes: Part I
10:15-10:45	**Tea Break**		
10:45-11:30	Xinyuan Wu	Elena Celledoni	An introduction to shape analysis and deep learning for optimal reparametrizations of shapes: Part II
11:30-14:00	**Lunch, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		
Time	**Chair**	**Speaker**	**Report Title**
14:00-14:45	Yifa Tang	Alexander Ostermann	Integration of NLS with low regularity initial data
14:45-15:15	**Tea Break**		
15:15-16:00	Yifa Tang	Alexander Ostermann	Bourgain techniques for error estimates at low regularity
16:00-16:45	Yifa Tang	Lun Ji	Low regularity time integration of NLS via discrete Bourgain spaces
September 7th, 2023 (Thursday)			
Time	**Chair**	**Speaker**	**Report Title**
9:30-10:15	Wansheng Wang	Brynjulf Owren	An introduction to deep learning techniques via a dynamical systems approach: Part I
10:15-10:45	**Tea Break**		
10:45-11:30	Wansheng Wang	Brynjulf Owren	An introduction to deep learning techniques via a dynamical systems approach: Part II

11:30-14:00	**Lunch, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		
Time	**Chair**	**Speaker**	**Report Title**
14:00-14:45	Bin Wang	Wansheng Wang	Efficient stability-preserving numerical methods for nonlinear coercive problems in vector space
14:45-15:30	Bin Wang	Jian Liu	Dynamics and Numerical Methods for Energetic particles in Fusion Devices
15:30-16:00	**Tea Break**		
16:00-16:45	Bin Wang	Jing Gao	Asymptotic computation for the multivariate highly oscillatory integral over a simplex
September 8th, 2023 (Friday)			
Time	**Chair**	**Speaker**	**Report Title**
9:30-10:15	Ruili Zhang	Elena Celledoni	Deep learning from the point of view of numerical analysis: Part I
10:15-10:45	**Tea Break**		
10:45-11:30	Ruili Zhang	Elena Celledoni	Deep learning from the point of view of numerical analysis: Part II
11:30-14:00	**Lunch, Fourth floor of Wuke Restaurant (物科餐厅四楼)**		
14:00-15:00	Free Discussion		