



深圳北理莫斯科大學

УНИВЕРСИТЕТ МГУ-ППИ В ШЭНЬЧЖЭНЕ
SHENZHEN MSU-BIT UNIVERSITY

数学青年博士研讨会

主办：深圳北理莫斯科大学计算数学与控制系
莫大-北理工-深北莫应用数学联合研究中心

2025 年 06 月 29-30 日 · 深圳

会议日程(Program Schedule)

June 29, 2025 Venue: Conference Room 336, Main Building	
Chair: Dr. Yuping Li	
9:00-15:00	Registration
15:30-16:00	Lele Yuan,LCU A Scaling Fractional Asymptotical Regularization Method for Linear Inverse Problems
16:00-16:30	Mingchao Cai Finite Element Methods and Fast Solvers for Incompressible Fluid Flow Models

June 30, 2025 Venue: Conference Room 336, Main Building	
Chair: Ye Zhang	
9:10-9:20	Opening remark: Ye Zhang
9:20-10:00	Ye Zhang, SMBU&BIT On the universal approximation theorems for deep neural networks for ill-posed inverse problems
10:00-10:30	Yuping Li,SMBU Discontinuous Galerkin methods for Auto-convolution Volterra integral equations
Chair: Yuping Li	

10:30-11:00	<p>Shuang Liu, NSU</p> <p>Analysis, Construction, and Justification of Algorithms for the Numerical Solution of Multi-Parametric Optimization Problems Using Machine Learning Methods</p>
11:00-11:30	<p>Ying-ao Wang, BIT</p> <p>On a class of high dimensional linear regression methods</p>
12:00-14:00	Lunch: Canteen I, 3 rd floor
Chair: Dr. Yuping Li	
14:00-14:30	<p>You Sun, BIT</p> <p>A concentration-preserving discontinuous Galerkin method for multi-component preparative chromatography</p>
14:30-15:00	<p>Qiao Zhu, BIT</p> <p>Deep asymptotic expansion method for solving singularly perturbed time-dependent reaction-advection-diffusion equations</p>
15:00-15:30	<p>Qin Huang, BIT</p> <p>A new second-order dynamical method for solving linear inverse problems in Hilbert spaces</p>
15:30-16:00	<p>Quan Mu, NSU</p> <p>Monte Carlo Method for Numerical Simulation of Solar Energy Radiation Transfer in Crystal Clouds</p>