



深圳北理莫斯科大學

УНИВЕРСИТЕТ МГУ-ППИ В ШЭНЬЧЖЭНЕ
SHENZHEN MSU-BIT UNIVERSITY

数学物理反问题中 的智能算法研讨会

主办：莫大-北理工-深北莫应用数学联合研究中心

2025 年 11 月 24-25 日 · 深圳

会议日程(Program Schedule)

第零天(Day 0):Nov23, 2025	
Venue: third floor Main Building	
Chair: Ye Zhang	
14:45-17:00	Registration & Sign-In
18:00-19:30	Dinner

第一天(Day 1):Nov24, 2025	
Venue: Conference Room 336, Main Building	
Chair: Ye Zhang	
9:00-9:15	Opening remark: Ye Zhang
9:15-9:45	Wangtao Lu Resonances in scattering problems and applications
9:45-10:15	Jun Lai Extended Particle Weak-form-based Neural Networks for Seismic Modeling
10:15-10:45	Fei Wang DeepONet augmented by randomized neural networks for efficient operator learning in PDEs
10:45-11:00	Tea break
Chair: Jun Lai	
11:00-11:30	Dong Wang An efficient iterative thresholding method for image segmentation
11:30-12:00	Xiang Xu Increasing stability of the acoustic and elastic inverse source problems in multi-layered media
12:00-14:00	Lunch
Chair: Dong Wang	
14:00-14:30	Yuliang Wang Near-field inverse obstacle scattering by flexural waves:method of transformed field expansion

14:30-15:00	Yuling Jiao Deep Generative Learning
15:00-15:30	Yue Zhao Direct and inverse scattering problems for the Schrodinger-type operators
15:30-15:45	Tea break
15:45-16:15	Lei Zhang Model predictive control for nonlinear system using control contraction metrics
16:15-17:00	Jue Wang Numerical research for the 2D vorticity-stream function formulation of the Navier-Stokes equations and its application in vortex merging at high Reynolds numbers
18:00-19:30	Dinner

第二天(Day 2):Nov25, 2025	
Venue: Conference Room 336, Main Building	
Chair: Xiang Xu	
9:15-9:45	Chaoyu Quan A domain decomposition method for the Poisson-Boltzmann solvation models
9:45-10:15	Yuliang Wang Inverse scattering of periodic surfaces with a superlens
10:15-10:45	Huangxin Chen An efficient and physically consistent numerical method for Maxwell-Stefan-Darcy model of two-phase flow in porous media
10:45-11:00	Tea break
11:00-11:30	Wei Yang A Finite Element Method for Hyperbolic Metamaterials with Applications for Hyperlens
11:30-12:00	Xu Qian 谱算子学习方法及其应用
12:00-14:00	Lunch
Chair: Chaoyu Quan	
14:00-14:30	Yue Zhao Inverse moving source problem in acoustics

14:30-15:00	Chenglong Bao PET-MRI joint reconstruction by joint sparsity based tight frame regularization.
15:00-15:30	Tao Yin CAD-CAE: boundary integral equation method
15:30-17:00	Discussions
18:00-19:30	Dinner

