



深圳北理莫斯科大学

УНИВЕРСИТЕТ МГУ-ППИ В ШЭНЬЧЖЭНЕ  
SHENZHEN MSU-BIT UNIVERSITY

# 应用数学讲座

Научный Семинар по Прикладной Математике

Research Seminar on Applied Mathematics

## 应用数学报告 (39)

Lectures will be given by  
Professor Mikhail V. Klivanov  
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题目 / Название / Title: Introduction for Carleman Estimates for Partial Differential Equations

时间 / Время / Time: 14-17 May 2022, start at 11:00

地点 / Место / Venue: zoom: 957 4728 4129  
Password:000000

### OUTLINE OF THE COURSE:

1. Example of Hadamard
2. Carleman estimate for an elliptic operator
3. Uniqueness and Holder stability for the Cauchy problem for that elliptic operator.
4. The Quasi-Reversibility Method for numerical solutions of that Cauchy problem
5. If time will allow, then I will present uniqueness results for Coefficient Inverse Problems via Carleman estimates: the Bukhgeim-Klivanov method.

### Reference:

M.V. Klivanov and J. Li, *Inverse Problems and Carleman Estimates: Global Uniqueness, Global Convergence and Experimental Data*, De Gruyter 2021.

访问学者以及需要做报告的学者请联系 张晔 教授 / Всем желающим выступить с докладами на семинаре просьба обращаться к Чжану Е [ye.zhang@smbu.edu.cn](mailto:ye.zhang@smbu.edu.cn)