

Inverse Problems for Partial Differential Equations

In honor of Professor Masaru Ikehata on the occasion of his 60th Birthday

Date : August 26, 2018 (Sun) – August 28, 2018 (Tue)

Venue : Room 222 (2nd floor in Building No. 2), ([ACCESS](#))

Tokyo University of Science (Kagurazaka Campus), Japan

Organizers: Mishio Kawashita (Hiroshima University, Japan)

Samuli Siltanen (University of Helsinki, Finland)

Takanori Ide (AISIN AW CO., LTD.)

Hiromichi Itou (Tokyo University of Science, Japan)

Program

August 26, 2018 (Sun)

- 13:00 - 14:00 Tetsutaro Shibata (Hiroshima University, Japan)
Oscillatory structures of bifurcation curves for nonlinear eigenvalue problems
- 14:20 - 15:20 Samuli Siltanen (University of Helsinki, Finland)
Computational inversion based on Complex Geometric Optics solutions
- 15:40 - 16:40 Takashi Ohe (Okayama University of Science, Japan)
Numerical comparison of various reconstruction formulae based on the enclosure method
- 17:00 - 18:00 ~~Maoh Nguyet Minh (University of Helsinki, Finland)~~ **cancelled**
Free discussion

August 27, 2018 (Mon)

- 10:00 - 11:00 Bastian Harrach (Goethe University Frankfurt, Germany)
Monotonicity methods for inverse coefficient problems
- 11:20 - 12:20 Andreas Hauptmann (University College London, UK)
The enclosure method for revealing cracks inside conductive bodies

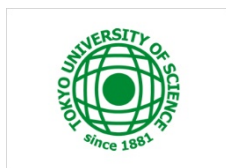
August 27, 2018 (Mon)

- 14:00 - 15:00 Shigeru Sakaguchi (Tohoku University, Japan)
Geometry of stationary isothermic surfaces and surfaces with the constant flow property
- 15:20 - 16:20 Gen Nakamura (Hokkaido University, Japan)
The Green function of the interior transmission problem for the diffusion equation and its applications
- 16:40 - 17:40 Masaru Ikehata (Hiroshima University, Japan)
Recent topics on the time domain enclosure method
- 18:30 - 21:30 **Banquet** at Risoukai club restaurant on the 6th floor at PORTA Kagurazaka in Tokyo University of Science ([MAP](#))

August 28, 2018 (Mon)

- 10:00 - 11:00 Daisuke Kawagoe (Inha University, Korea)
Propagation of boundary-induced discontinuity in stationary radiative transfer and its application to the diffused optical tomography
- 11:20 - 12:20 Kazunori Ando (Ehime University, Japan)
Inverse scattering for discrete Schrödinger operators on periodic graphs
- 14:00 - 15:00 Igor Trushin (Tohoku University, Japan)
Inverse Scattering Problems on Non-Compact Graphs
- 15:20 - 16:20 Mishio Kawashita (Hiroshima University, Japan)
Finding obstacles in a two-layered medium by the enclosure method

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