The 9th Young Scholar Symposium of
the East Asia Section of IPIA

Date: November 15 ~ 16, 2025
Venue: Room 110, Graduate School of Science Bldg. No. 3, Kyoto University.
Address: Kitashirakawa Oiwake-cho, Sakyo-ku, Kyoto 606-8502, Japan.

Schedule

November 15 (Sat.)

9:00 - 9:15   Opening & Group Photo

9:15 - 10:15   **[Plenary Talk]** Hyeonbae Kang (Inha University)

A decomposition theorem of surface vector fields and spectral structure of the Neumann-Poincaré operator in elasticity

10:15 - 10:30 Break

10:30 - 11:00 Shota Fukushima (Gumma University)

Perturbation of fields by perfect conductors with interface resistance

11:00 - 11:30 Yong-Gwan Ji (Korea Institute for Advanced Study)

Neumann-Poincaré operators and Laplace screen problem

11:30 - 12:00 Qingle Meng (City University of Hong Kong)

Dislocations with corners in an elastic body with applications to fault detection

12:00 - 13:30 Lunch Break

13:30 - 14:00 Tuhin Ghosh (Harish-Chandra Research Institute)

Fractional Borg-Levinson problem

14:00 - 14:30 Manabu Machida (Kindai University)

Lipschitz stability of inverse problems for the time-fractional advection-diffusion equation and its relation to the linear Boltzmann equation

14:30 - 15:00 Jiho Hong (Chinese University of Hong Kong)

Recovery of spatially varying order of time derivation in subdiffusion

15:00 - 15:30 Yuhan Li (City University of Hong Kong)

On inverse problems in coupled biological models

15:30 - 16:00 Break

16:00 - 16:30 Shiqi Ma (Jilin University)

Inverse stability for hyperbolic equations

16:30 - 17:00 Soomin Jeon (Dong-A University)

SVD-based spectral approaches for efficient imaging and learning

17:00 - 17:30 Kwancheol Shin (Ewha Womans University)

Deep variational EIT via coupled neural potentials and stream functions

17:30 - 18:00 Yen-Huan Li (National Taiwan University)

Quantum state tomography under the logarithmic loss

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November 16 (Sun.)

9:30 - 10:00 Pierre Millien (Institut Langevin)

Guide star in the speckle, mathematical framework for speed of sound reconstruction in medical ultrasound imaging

10:00 - 10:30 Hiroyuki Miyoshi (The University of Tokyo)

Analytical formulae for flow resistance of a periodic shrouded-fin heat sink: exact and asymptotic solutions

10:30 - 11:00 Xianchao Wang (Harbin Institute of Technology)

Time-domain direct sampling method for inverse scattering problems with a single incident source

11:00 ~ 11:30 Toshiaki Yachimura (Tohoku University)

Reconstructing cell differentiation dynamics via optimal transport

11:30 - 11:45 Break

11:45 - 12:00 Best Presentation Award Ceremony & Closing

12:00 - 13:30 Lunch Break

13:30 - 18:00 Free Discussion

(Last updated: November 6, 2025)