

Tsukuba Conference on Integral Geometry and Harmonic Analysis

Date: August 7 (Monday) – August 10 (Thursday), 2006

Place: Laboratory of Advanced Research B, University of Tsukuba

1-1-1, Tennodai, Tsukuba-shi, Ibaraki, 305-8577, Japan (cf. WEB site at the bottom)

PROGRAM

August 7 (Monday)

13:00-13:10 Opening remarks

Chairperson: Toshio Oshima (University of Tokyo)

13:10-14:10 Sigurdur Helgason (Massachusetts Institute of Technology)
The X-ray Transform

14:10-14:30 *Break*

14:30-15:30 Satoshi Ishikawa (University of Tokyo)
The Radon Transform for the double fibrations of noncompact symmetric spaces

15:30-15:50 *Break*

15:50-16:50 Yutaka Matsui (University of Tokyo)
Topological Radon transforms and their applications (joint with Kiyoshi Takeuchi)

August 8 (Tuesday)

Chairperson: Gestur Olafsson (Louisiana State University)

10:00-11:00 Hiroshi Isozaki (University of Tsukuba)
Inverse boundary value problems and hyperbolic spaces

11:00-11:20 *Break (group picture)*

11:20-12:20 Eric Todd Quinto (Tufts University)
Support Theorems for the Spherical Radon Transform on Manifolds

12:20-14:30 *Lunch Time*

Chairperson: Eric Grinberg (University of New Hampshire)

14:30-15:30 Boris Rubin (Louisiana State University)
Integral geometry and fractional calculus

15:30-15:50 *Break*

15:50-16:50 Takaaki Nomura (Kyushu University)
Tube domain and an orbit of a complex triangular group (joint with Hideyuki Ishi)

18:00-20:00 *Banquet*

August 9 (Wednesday)

Chairperson: Fulton Gonzalez (Tufts University)

10:00-11:00 Toshiyuki Kobayashi (Kyoto University)
TBA

11:00-11:20 *Break*

11:20-12:20 Eric Grinberg (University of New Hampshire)
TBA

12:20-14:30 *Lunch Time*

Chairperson: Toshiyuki Kobayashi (Kyoto University)

14:30-15:30 Fulton Gonzalez (Tufts University)
On the range of the matrix Radon transform (joint with Tomoyuki Kakehi)

15:30-15:50 *Break*

15:50-16:50 Gen Mano (Kyoto University)
The unitary inversion operator for the minimal representation of $O(p,q)$

August 10 (Thursday)

Chairperson: Sigurdur Helgason (Massachusetts Institute of Technology)

9:00-10:00 Hideko Sekiguchi (University of Tokyo)
Radon-Penrose transform for the quantization of elliptic orbits

10:00-10:20 *Break*

10:20-11:20 Gestur Olafsson (Louisiana State University)
Holomorphic Aspects of the Abel Transform

11:20-11:40 *Break*

11:40-12:40 Toshio Oshima (University of Tokyo)
Differential equations attached to generalized flag manifolds

For the details of the conference, please visit the following site:
<http://www.math.tsukuba.ac.jp/~kakehi/integral-geometry/conference.html>

Organizers:

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