

**The International Symposium
Geometry and Analysis of Automorphic Forms of Several
Variables**

in honor of Professor Takayuki Oda on the occasion of his 60th birthday

Date: 14–17 September

Place: The Main Auditorium, Graduate School of Mathematical Sciences, Komaba
Campus, the University of Tokyo

This symposium is partially supported by JSPS Grant-in-aid for Scientific Research A-21244001 (Tomoyoshi Ibukiyama), A-19204001 (Takayuki Oda), A-19204002 (Makoto Matsumoto), B-19340009 (Masanobu Kaneko), and by the fund of Saga University.

Sep. 14th (Mon)

- 14:00-15:00 Werner Hoffmann (Universität Bielefeld)
Fourier transforms of weighted orbital integrals on $\mathrm{Sp}(2, \mathbb{R})$.
- 15:15-16:15 Takao Watanabe (Osaka University)
On Voronoi's theorem and related problems.
- 16:30-17:30 Yumiko Hironaka (Waseda University)
 p -adic spherical functions and singular series.

Sep. 15th (Tue)

- 10:00-11:00 Joachim Schwermer (Universität Wien)
Geometric cycles, arithmetic groups and related automorphic forms.
- 11:15-12:15 Shushi Harashita (Institute for the Physics and Mathematics of the Universe)
The supremum of Newton polygons of p -divisible groups with a given p -kernel type.
- 14:00-15:00 Fumihiro Sato (Rikkyo University)
Representations of Clifford Algebras and local functional equations of non-prehomogeneous type.
- 15:15-16:15 Atsushi Murase (Kyoto Sangyo University)
Hecke symmetries for theta lifting and Borcherds products on orthogonal groups (a joint work with Bernhard Heim).
- 16:30-17:30 Tomoyoshi Ibukiyama (Osaka University)
Differential operators on Siegel modular forms as special functions and applications.

Sep. 16th (Wed)

- 10:00-11:00 Henri Darmon (McGill University)
Arithmetic of cycles on modular varieties.
- 11:15-12:15 Makoto Matsumoto (Hiroshima University)
Study of Galois representations via Teichmüller modular groups.
- 14:00-15:00 Noriko HIRATA-Kohno (Nihon University)
Exceptional classes of unit equations.
- 15:15-16:15 Toshiyuki Kobayashi (University of Tokyo)
TBA.
- 16:30-17:30 Takayuki Oda (University of Tokyo)
Quest for more paths between analysis and geometry of automorphic forms on Hermitian domains.

Sep. 17th (Thu)

- 10:00-11:00 T. N. Venkataramana (Tata Institute of Fundamental Research)
Restriction of cohomology of locally symmetric spaces.
- 11:15-12:15 Taku Ishii (Seikei University), Miki Hirano (Ehime University),
Tadashi Miyazaki (University of Tokyo)
Archimedean Whittaker functions on $GL(3)$.
- 14:00-15:00 Masao Tsuzuki (Sophia University)
Spectral square means for central values of L -series of Maass cusp forms.
- 15:15-16:15 Marko Tadić (University of Zagreb)
On automorphic duals of classical groups.

Scientific committee:

Yoshinori Hamahata (representative) (Tokyo Univ. of Science), Takashi Ichikawa (Saga Univ.), Toshiyuki Kobayashi (Univ. of Tokyo), Atsushi Murase (Kyoto Sangyo Univ.), Takashi Sugano (Kanazawa Univ.).

Organizing committee:

Yoshinori Hamahata (representative) (Tokyo Univ. of Science), Yasuro Gon (Kyushu Univ.), Keiichi Gunji (Chiba Inst. of Tech.), Takahiro Hayata (Yamagata Univ.), Miki Hirano (Ehime Univ.), Taku Ishii (Seikei Univ.), Yoshi-hiro Ishikawa (Okayama Univ.), Tomonori Moriyama (Osaka Univ.), Hiro-aki Narita (Kumamoto Univ.), Masao Tsuzuki (Sophia Univ.).

*The banquet will be held at Komaba Eminence on Wednesday (from 18:00). For details on it please contact Miki Hirano (hirano@math.sci.ehime-u.ac.jp).

**The webside of this symposium: <http://ee5klab.yz.yamagata-u.ac.jp/conference/>