

**HARMONIC ANALYSIS AND ITS APPLICATIONS
AT TOKYO 2012**

November 16–18, 2012
Tokyo Metropolitan University, International House
1-1 Minami-Osawa, Hachioji-shi, Tokyo 192-0397

Nov 16 (Fri)

- 9:30–10:30 **Pekka Koskela** (University of Jyväskylä, Finland)
Quasiconformally invariant function spaces
- 10:45–11:15 **Yuan Zhou** (Beihang University, China)
Quasiconformal mappings and Q -spaces
- 11:25–11:55 **Renjin Jiang** (Beijing Normal University, China)
Harmonic functions and isoperimetric inequality on metric measure spaces
- 14:00–15:00 **Dachun Yang** (Beijing Normal University, China)
Orlicz-Hardy spaces associated with some differential operators
- 15:15–15:45 **Yoshihiro Sawano** (Tokyo Metropolitan University)
An observation on Hardy spaces
- 15:55–16:25 **Haibo Lin** (China Agricultural University, China)
Equivalent boundedness of Marcinkiewicz integrals on non-homogeneous metric measure spaces
- 16:40–17:10 **Makoto Nakamura** (Tohoku University)
The Cauchy problem for dissipative wave equations with weighted nonlinear terms
- 17:20–17:50 **Tsuyoshi Yoneda** (Hokkaido University)
A mathematical clue to the separation phenomena on the two-dimensional Navier-Stokes equation

Nov 17 (Sat)

- 9:30–10:30 **Victor I. Burenkov** (Kazakhstan/United Kingdom)
Recent progress in studying the boundedness of classical operators of real analysis in general Morrey-type spaces
- 10:45–11:15 **Tamara V. Tararykova** (Kazakhstan/United Kingdom)
On boundedness of the Hardy operator in Morrey-type spaces
- 11:25–11:55 **Eiichi Nakai** (Ibaraki University)
Generalized fractional integrals of variable order

- 14:00–15:00 **Andrei K. Lerner** (Bar-Ilan University, Israel)
A simple proof of the A_2 and two-weight conjectures for Calderón-Zygmund operators
- 15:15–15:45 **Hitoshi Tanaka** (The University of Tokyo)
A characterization for the boundedness of positive operators in a filtered measure space
- 15:55–16:25 **Naohito Tomita** (Osaka University)
Calderón-Vaillancourt type theorem for bilinear operators
- 16:40–17:10 **Dongyong Yang** (Xiamen University, China)
Maximal Function Characterizations of Hardy Spaces Associated with Magnetic Schrödinger Operators
- 17:20–17:50 **Masaharu Kobayashi** (Yamagata University)
Representation of Schrödinger operator of a free particle via short-time Fourier transform

Nov 18 (Sun)

- 9:30–10:00 **Tamotu Kinoshita** (University of Tsukuba)
On the wavelets having Gevrey regularities and subexponential decays
- 10:10–10:40 **Tetsu Shimomura** (Hiroshima University)
Exponential integrability of Riesz potentials of Orlicz functions
- 10:50–11:20 **Hidemitsu Wadade** (Gifu University)
On a singular gap between Sobolev-Besov-Lorentz spaces in the limiting case
- 11:30–12:30 **Shuichi Sato** (Kanazawa University)
Multiple singular integrals on product of homogeneous groups
- 14:00–18:00 **Free Discussion**

Organizers:

Yasuo Komori-Furuya (Tokai University)

Akihiko Miyachi (Tokyo Woman's Christian University) – Chair

Eiichi Nakai (Ibaraki University)

Masami Okada (Tokyo Metropolitan University) – Vice Chair

Yoshihiro Sawano (Tokyo Metropolitan University) – Vice Chair

Hitoshi Tanaka (The University of Tokyo)

Web page: <http://www.osaka-kyoiku.ac.jp/~enakai/haat2012/>