

HARMONIC ANALYSIS, GEOMETRIC ANALYSIS AND PDE WORKSHOP

SAITAMA UNIVERSITY
6th TENURE-TRACK SYMPOSIUM

2–4 MARCH 2016

PROGRAM

Wednesday 2 March

14:00–15:15

Michael Cowling (University of New South Wales)

Uncertainty Principles (I) : The classical uncertainty principles of Heisenberg and Hardy

15:30–16:30

Po Lam Yung (Chinese University of Hong Kong)

Failure of some critical Sobolev embeddings

16:45–17:45

Mitsuru Sugimoto (Nagoya University)

Optimal smoothing estimates and trace theorems

Thursday 3 March

10:45–12:00

Michael Cowling (University of New South Wales)

Uncertainty Principles (II) : The Beurling uncertainty principle

12:00–14:00

Lunch

14:00–15:15

Michael Cowling (University of New South Wales)

Uncertainty Principles (III) : Applications of real interpolation

15:30–16:30

Kotaro Tsugawa (Nagoya University)

Local well-posedness and parabolic smoothing effect of semilinear fifth order dispersive equations on the torus

16:45–17:45

Takayoshi Ogawa (Tohoku University)

Global behavior of a drift-diffusion system in higher dimensions

19:00–

Banquet

Friday 4 March

10:45–12:00

Michael Cowling (University of New South Wales)
Uncertainty Principles (IV) : Logarithmic inequalities

12:00–14:00

Lunch

14:00–14:30

Hiroki Saito (Kogakuin University)
General maximal operators and the Reverse Hölder classes

14:45–15:15

Aya Ishizeki (Saitama University)
A decomposition of the Möbius energy and consequences

15:30–16:30

Akihiko Miyachi (Tokyo Woman's Christian University)
Bilinear pseudo-differential operators with symbols in the Hörmander class

16:45–17:45

Sanghyuk Lee (Seoul National University)
Stability of the Brascamp–Lieb inequalities and applications

Organisers

Takeyuki Nagasawa (Saitama University)

Shuji Machihara (Saitama University)

Yohei Sato (Saitama University)

Neal Bez (Saitama University)