

14TH DISCUSSION MEETING IN HARMONIC ANALYSIS

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF DELHI
DECEMBER 10-12, 2015

SCHEDULE

DAY-I (DECEMBER 10, 2015)

- 8:30–9:30 Registration
- 9:30–9:45 Inauguration
- Chair:* M. G. Nadkarni
- 9:45–10:45 *On the dual of the discrete heisenberg group*
Gerald B. Folland
- 10:45–11:15 High Tea
- 11:15–11:55 *Harish-Chandra's role in harmonic analysis on Lie groups*
Alladi Sitaram
- 11:55–12:55 *Functional calculus for Ritt operators and analytic semigroups - I*
Christian Le Merdy
- 12:55–14:00 Lunch
- Chair:* S. Thangavelu
- 14:00–14:20 Heisenberg uncertainty inequality for Gabor transform
Ashish Bansal
- 14:20–14:40 *Semi-orthogonal parseval wavelets associated to GMRA's on local fields of positive characteristics*
Niraj Kumar Shukla
- 14:40–15:20 *L^p –Fourier transform norm for certain Lie groups*
Ali Baklouti
- 15:20–15:40 Tea
- Chair:* K. Parthasarathy
- 15:40–16:00 *Hilbert space valued Gabor frames in weighted amalgam spaces*
Anirudha Poria
- 16:00–16:20 *Frames and Riesz bases of twisted shift-invariant spaces*
Saswata Adhikari
- 16:20–16:40 *Multidimensional frame and dual frame wavelet systems*
Anupam Gumber
- 16:40 High Tea

DAY-II (DECEMBER 11, 2015)

- Chair:* *E. K. Narayanan*
- 9:30–10:30 *Numerical radii of operator spaces - I*
Takashi Itoh
- 10:30–11:10 *Potential operators associated with orthogonal expansions*
Krzysztof Stempak
- 11:10–11:40 High Tea
- 11:40–12:40 *Functional calculus for Ritt operators and analytic semigroups - II*
Christian Le Merdy
- 12:40–13:00 *Heisenberg uniqueness pairs for Fourier transform*
Rajesh Srivastava
- 13:00–14:00 Lunch
- Chair:* *Parasar Mohanty*
- 14:00–14:20 *Harmonic and polyharmonic polynomials on the Heisenberg group \mathbb{H}_n*
Shivani Dubey
- 14:20–14:40 *A class of bilinear multipliers*
Saurabh Shrivastava
- 14:40–15:20 *A sharp form of Marcinkiewicz interpolation theorem for Orlicz spaces*
Rama Rawat
- 15:20–15:40 Tea
- Chair:* *Rama Rawat*
- 15:40–16:00 *Around a theorem of Paley and Wiener*
Mithun Bhowmik
- 16:00–16:20 *Hardy's inequality and fractal measures*
Senthil Raani KS
- 16:20–16:40 *A generalized interpolation theorem of Marcinkiewicz type in Orlicz spaces*
Rajesh Kumar Singh
- 16:40 High Tea

DAY-III (DECEMBER 12, 2015)

- Chair:* *Ajit I Singh*
- 9:30–10:30 *Numerical radii of operator spaces - II*
Takashi Itoh
- 10:30–11:10 *Ore's theorem for cyclic subfactor planar algebras and applications*
Sebastien Palcoux
- 11:10–11:40 Tea
- Chair:* *Ruchi Das*
- 11:40–12:40 *Functional calculus for Ritt operators and analytic semigroups - III*
Christian Le Merdy
- 12:40–13:00 *Characterization of low-pass filters on local fields of positive characteristic*
Qaiser Jahan
- 13:00–14:00 Lunch
- Chair:* *A. Sitaram*
- 14:00–14:20 *Superior order Poincaré-type inequality related to the Jacobi semigroup*
Abdellatif BENTALEB
- 14:20–15:00 *Composition operators on modulation spaces
and
application to Schroedinger equation*
Ratnakumar P.K.
- 15:00–15:20 Tea
- Chair:* *M. Sundari*
- 15:20–15:40 *Modulation spaces and Shrödinger equations*
Divyang Bhimani
- 15:40–16:20 *Matrix-valued commuting family of differential operators
associated with symmetric spaces*
Nobukazu Shimeno
- 16:40 High Tea