

Summer Seminar on Non-commutative Analysis

Wuhan University, Wuhan, China

14 JUL to 12 AUG, 2015

- Lecture Room on the third Floor of the School of mathematics and statistics, Wuhan university

SCHEDULE

14 July **Arrival Day**

15 July **First lecture:**

15:00 - 18:30 **Quanhua Xu:** Principles of ergodic theorems

16 July **Invited talk:**

16:30 - 17:30 **Deping Ye** (Memorial University, Canada): Is it easy to catch Einstein's "spooky action"?

17 July **Invited talk:**

15:00 - 18:30 **Benben Liao** (ENS Lyon, France): Noncommutative L_p -spaces without bounded approximation property

18 July **Lectures:**

15:00 - 16:45 **Simeng Wang:** Ergodic theorems for actions by amenable groups

16:45 - 18:30 **Mu Sun:** Calderón's transference principle

19 July **Free Day**

- 20 July** **Lecture:**
15:00 - 18:30 **Cheng Yan:** Maximal inequalities on Euclidean spaces I
- 21 July** **Talk:**
15:00 - 18:30 **Xiao Xiong:** Characterizations of operator-valued Hardy spaces
- 22 July** **Problem Sessions**
- 23 July** **Lecture:**
15:00 - 18:30 **Cheng Yan:** Maximal inequalities on Euclidean spaces II
- 24 July** **Talk:**
15:00 - 18:30 **Runlian Xia:** Operator-valued local Hardy spaces
- 25 July** **Lecture:**
15:00 - 18:30 **Benben Liao:** Maximal inequalities for actions of amenable groups
- 26 July** **Talk:**
15:00 - 18:30 **Xingxing Yao:** Complex symmetry of weighted composition operators in several complex variables
- 27 July** **Lecture:**
15:00 - 18:30 **Xiao Xiong:** Ergodic theorems for isometries and free group actions
- 28 July** **Harmonic day:**
15:30 - 16:30 **C. D. Sogge** (Johns Hopkins University, USA): Focal points and sup-norms of eigenfunctions
16:30 - 16:45 **Coffee break**
16:45- 17:45 **Jie Xiao** (Memorial University, Canada): Capacitance imbedded between flux and mass
- 29 July** **Free Day**

30 July Talk:

16:00 - 18:00 **Simeng Wang:** L_p -improving convolution operators on finite quantum groups

31 July Lectures:

15:00 - 16:30 **Xiao Xiong:** Mean ergodic theorem for free group actions on L_2

17:00 - 18:30 **Benben Liao:** Maximal inequalities for free group actions on L_2

1 August Talk:

15:00 - 18:30 **Mu Sun:** Noncommutative multi-parameter weighted ergodic theorem

2 August Invited talks:

15:00 - 16:00 **Cheng Yan** (Xinjiang University): Toeplitz and Hankel operators on noncommutative Hardy spaces

16:00 - 16:30 **Coffee break**

16:30 - 17:30 **Ruhan Zhao** (Suny Brockport, New York, USA): Weak factorization and Hankel forms for weighted Bergman spaces on the unit ball

3 August Lecture:

15:00 - 18:30 **Runlian Xia:** Maximal inequalities for free group actions on L_1

4 August Talk:

15:00 - 18:00 **Simeng Wang:** Lacunary Fourier series for compact quantum groups

5 August Invited talks:

15:30 - 16:30 **M. Mastyło** (Adam Mickiewicz University, Poland): The almost everywhere convergence of Fourier series

16:30 - 16:45 **Coffee break**

16:45 - 17:45 **F. Sukochev** (University of NSW, Australia): On the Arazy conjecture concerning Schur multipliers on Schatten ideals

6 August Lecture:

15:00 - 18:30 **Zeqian Chen:** Yeadon's maximal ergodic inequalities

7 August

Lecture:

15:00 - 18:30

Zeqian Chen: Junge-Xu's noncommutative maximal ergodic inequalities

8 August

Talk:

16:00 - 18:00

Maofa Wang: Linear combination composition operators on Bergman spaces

9 August

Talk:

15:00 - 16:00

Tao Ma: Vector valued q -variational inequalities

10 August

Lecture:

15:00 - 18:30

Xiao Xiong: Nevo-Stein's complex interpolation for maximal inequalities of free group actions I

11 August

Lecture:

15:00 - 18:30

Runlian Xia: Nevo-Stein's complex interpolation for maximal inequalities of free group actions II