Auburn University

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FOURTEENTH AUBURN MINI-CONFERENCE ON HARMONIC ANALYSIS AND RELATED AREAS

Friday and Saturday, December 19-20, 1997
Sponsored by NSF

Friday morning 8:30 - 8:55 coffee, fruit, doughnuts, registration, information - Parker Hall 244.

Friday Morning Session - Parker Hall 217

9:00 - 9:05   Opening Remarks

9:10 - 10:00   Tom Wolff - Calif. Inst. Technology
Survey of Recent Work on the Kakeya Problem

10:10 - 10:30   Zhijian Wu - Univ. of Alabama
Carleson Measures for Besov Spaces

10:40 - 11:00   Brian Kelly - North East Louisiana University
A Generalization of Jensen's Inequality for the Unit Disk

11:10 - 12:00   Sagun Chanillo - Rutgers Univ.
Local Exactness in a Differential Complex

12:00 - 2:00   Lunch Break

Friday Afternoon Session - Parker Hall 217

2:00 - 2:20   Richard O'Neil - SUNY
The Kantorovich Inequality For Orlicz Spaces

2:30 - 2:50   Xue-Feng Yang - Georgia Tech
Nodal Sets and Morse Indices

3:00 - 3:20   Y. Han - Auburn Univ.
A Generalization of the Cotlar-Stein Lemma

| 3:30 - 3:50 | Baiqiao Deng - Columbus State Univ. |
| | Progressive Wavelets |

4:00 - 4:05 GROUP PICTURE in front of Parker Hall

| 4:10 - 5:00 | Alan McIntosh - Macquarie Univ. (Australia) |
| | Higher Integrability of the Jacobian on Bounded Domains |

6:00 - 9:00	Picnic at Pebble Hill
	Brazilian Feijoada and Barbecue, beer, wine and soft drinks:
	Contributions toward beer and wine accepted at picnic.

Saturday Moring Session - Parker Hall 217

| 8:30 - 9:00 | Coffee, Doughnuts - Parker Hall 244 |

| 9:00 - 9:20 | Joe Lakey - New Mexico St. Univ. |
| | Constructive Decomposition of Central Mean Oscillation |

| 9:30 - 9:50 | James Campbell - Memphis State |
| | Variation and Oscillation for Singular Integrals in Ergodic Theory |

10:00 - 10:50	Alan McIntosh - Macquarie Univ.
	Discrete Quadratic Estimates and Holomorphic Functional Calculus of
	Operators in Banach Space.

| 11:00 -11:30 | Mike Wilson – Univ. Vermont |
| | A Semi-Discrete Littlewood - Paley Inequality |

| 11:30 - 1:30 | Lunch Break |

Saturday Afternoon Session - Parker Hall 217

1:30 - 1:50	Gary Sampson - AU
	The Complete (L^p, L^p) Mapping Problem for Oscillatory Integrals in
	Higher Dimension

| 2:00 - 2:50 | Tom Wolff – Cal. Tech. |
| | Continuation |

| 3:00 - 3:50 | Segun Chanillo - Rutgers Univ. |
| | Symmetry of Solutions of Non-Linear PDEs |

| 4:30 - | University vans carrying participants to Atlanta leaves Parker Hall - Sat. evening |
| | we will carry interested participant sto (Dutch Treat) dinner in Atlanta. |