

Auburn University

Auburn University, Alabama 36849-5310

College of Sciences and Mathematics

Division of Mathematics
Foundations, Analysis and Topology
218 Parker Hall

Telephone: (205) 844-4290
ATTNet: 221-4290

NINTH AUBURN MINICONFERENCE ON HARMONIC ANALYSIS AND RELATED AREAS

Wavelets and Applications

Friday and Saturday, December 4-5, 1992

Sponsored by NSF

Friday Morning 9:00-10:00 Coffee, Doughnuts, Registration, Information
(Parker Hall 244).

FRIDAY MORNING SESSION (Parker Hall 217):

10:05-10:10, Opening remarks, Geraldo De Souza, Auburn University.

10:10-11:00, Colin Bennett, U. of So. Carolina, Introduction to wavelet
decompositions.

11:00-11:15: Coffee Break.

11:15-12:05, Colin Bennett, U. of So. Carolina, Wavelet characterizations of
function spaces.

12:05-1:55 Lunch (Dutch Treat).

FRIDAY AFTERNOON SESSION (Parker Hall 217):

2:10-3:00, Robert Sharpley, U. of So. Carolina, Elliptic equations, wavelets,
and the relation to multigrid.

3:10-3:30, Anca Deliu, Georgia Tech, Trace theorem via wavelets on $[0,1]$.

3:35-4:05, Refreshment Break (Parker Hall 244)

4:10-5:00, Ron DeVore, U. of So. Carolina, Theory of wavelet
approximation applied to images and data.

6:00-9:00 Picnic at Pebble Hill (Mexican fajitas and Brazilian feijoada).

Saturday Morning 8:30-8:55 Coffee, Doughnuts (Parker Hall 244).

SATURDAY MORNING SESSION (Parker Hall 217):

9:10-10:00, Bob Sharply, U. of So. Carolina, Hyperbolic equations - are wavelets useful here?

10:10-10:30, Kees Onneweer, U. of N. Mexico, Multipliers on $H^p(\mathbb{R}^n)$.

10:35-10:55, Tim Olson, Dartmouth College, Wavelet localization of the Radon transform.

11:10-12:00, Victor Wickerhauser, Washington Univ., Computations with adapted time-frequency atoms I.

12:05-1:25 Lunch (Dutch Treat).

SATURDAY AFTERNOON SESSION (Parker Hall 217):

2:10-3:00, Ron De Vore, U. of So. Carolina, Implementation of image compression techniques.

3:10-3:30, Huixia Zhu, U. of Florida, Generalized matrix products and wavelet transforms.

3:35-3:55, Nakhle Asman, U. of Mo., title TBA.

3:30-4:20, Victor Wickerhauser, Washington Univ., Computations with adapted time-frequency atoms II

5:00 University vans carrying participants to Atlanta leaves Parker Hall.