
**NINTH NEW MEXICO
ANALYSIS SEMINAR**

**Department of Mathematics and
Statistics**

**University of New Mexico
Albuquerque**

April 6-8, 2006

PROGRAM

Sponsored by NSF

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THURSDAY APRIL 6 - WOODWARD HALL 147

- *Coffee and cookies.*

3:20pm Official Opening.

3:30pm Tatiana Toro (University of Washington, Seattle, WA)
Geometric measure theory as a tool in free boundary regularity problems I.

- *Coffee Break.*

5:20pm Christina Selby (Purdue University, West Lafayette, IN)
An extension and trace theorem for functions of G-bounded variation in Carnot Groups of step 2.

6:00pm Ivan Avramidi (New Mexico Institute of Mining and Technology, Socorro, NM)
Spectral asymptotics of non-commutative Laplacian.

FRIDAY MORNING APRIL 7 - WOODWARD HALL 147

- *Coffee and goodies.*

8:30pm Tatiana Toro (University of Washington, Seattle, WA)
Geometric measure theory as a tool in free boundary regularity problems II.

- *Coffee Break*

10:20am Michael Wilson (University of Vermont, Burlington, VM)
The intrinsic square function.

11:00am Tao Mei (Texas A & M University, College Station, TX)
Matrix valued BMO spaces and paraproducts.

11:40am Geoff Diestel (University of Missouri at Columbia, MO)
The Multilinear Ball Multiplier Problem.

- *Lunch Break*

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FRIDAY AFTERNOON APRIL 7 - WOODWARD HALL 147

2:00pm Tatiana Toro (University of Washington, Seattle, WA)
Geometric measure theory as a tool in free boundary regularity problems III.

- *Coffee Break*

4:00pm Raluca Felea (Rochester Institute of Technology, Rochester, NY)
An FIO calculus for the marine seismic imaging: folds and cross caps.

4:40pm Maria Cristina Mariani (New Mexico State University, Las Cruces, NM)
Essentially different and decaying periodic solutions of the forced pendulum equation with friction.

5:20pm Bixiang Wang (New Mexico Institute of Mining and Technology, Socorro, NM)
Asymptotic Behavior of the FitzHugh-Nagumo System

SATURDAY APRIL 8 - WOODWARD HALL 147

- *Coffee and goodies.*

9:30am Wilfredo Urbina (Universidad Central de Venezuela/University of New Mexico, Albuquerque, NM)
Orthogonal polynomials with Hermitian matrix argument.

10:10am Michael Eydenberg (New Mexico State University, Las Cruces, NM)
The Weyl Correspondence as a Functional Calculus.

10:50am Hamed Obiedat (New Mexico State University, Las Cruces, NM)
A Topological Characterization of the Beurling-Björck Space S_w Using the Short-Time Fourier Transform.

- THE END

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Organizers: Tiziana Giorgi (NMSU), Joseph Lakey (NMSU),
Cristina Pereyra (UNM), Adam Sikora (NMSU), Robert Smits (NMSU).