

## 2011-2012 Analysis and Applied Math Seminar

**Wednesday, September 7, 2011**

Dr. Yuliya Babenko, Kennesaw State University

*“Kolmogorov Problem on the class of absolutely monotone functions”*

**Wednesday, September 21, 2011**

Dr. Alexander Petukhov, University of Georgia

*“Mathematical Aspects of Image and Video Processing”*

**Wednesday, October 5, 2011**

Dr. Leo Rebholz, Clemson University

*“Adaptive nonlinear filtering in Leray regularization models of the Navier-Stokes equations”*

**Wednesday, October 12, 2011**

Dr. Andras Kroo, Alfred Renyi Mathematical Institute of the Hungarian Academy of Sciences,  
Budapest, Hungary

*“On optimal polynomial meshes”*

**Wednesday, November 2, 2011**

Dr. Neil Lyall, University of Georgia

*“Arithmetic Structure of Difference Sets”*

**Wednesday, November 16, 2011**

Dr. Ming-Jun Lai, University of Georgia

*“A nonconvex  $\ell_{q,1}$  minimization algorithm for matrix completion”*

**Wednesday, November 30, 2011**

Dr. Bo Yang, Kennesaw State University

*“Positive solutions for the Lidstone boundary value problem”*

**Friday, February 3, 2012**

Dr. Anda Gadidov, Kennesaw State University

*“Equivalent Martingale Measures and the Girsanov Theorem”*

**Friday, February 17, 2012 (Capstone Presentation)**

Shannon Bryce and Teagan Bryce

*“Adaptive Interpolation of Hyperbolic Functions by Linear Splines”*

**Friday, March 16, 2012**

Dr. Igor Belykh, Mathematics Department and Neuroscience Institute at Georgia State  
University, also member of the Center for Nonlinear Science at Georgia Institute of Technology

*“Dynamics of stochastically switching dynamical systems”*

**Thursday, March 22, 2012 (Math Talks)**

Dr. Tatyana Sorokina, Towson University

*“SUPERsmoothness of Piecewise Polynomials”*

**Friday, April 13, 2012**

Dr. Jesse Schwartz, Kennesaw State University

*“Dominant Strategy Revelation of Demand Curves Using Price Schedules”*

**Friday, April 20, 2012 (Capstone Presentation)**

Michael Nelson, Kennesaw State University

*“Nonmeasurable Cardinals”*

**Thursday, April 26, 2012 (Math Talks)**

Dr. Eli Levin, The Open University of Israel, Israel

*“Generalized Christoffel Functions and Extremal Problems”*

**Thursday, May 3, 2012**

1:30-2:20 – Dmitriy Kuzmenko, Dnepropetrovsk National University, Ukraine

2:30-3:20 – Dr. Alex Stokolos, Georgia Southern University

3:30-4:20 – Dr. Jean-Marie Mirebeau, Université de Paris - Dauphine, France