

**MATHEMATICS DEPARTMENT SEMINAR SCHEDULE**  
**November 26 – November 30, 2001**

*All seminars are held in Boyd Graduate Studies unless otherwise noted.*

**MONDAY, November 26, 2001**

**Group Representation & Cohomology**

2:30 - 3:30 p.m., Room 410

**Speaker:** Blake Hindman, University of Georgia

**Title of talk:** “*Nilpotents in representation rings for  $p$ -groups*”

**Analysis**

2:30 p.m., Room 322

**Speaker:** TBA

**Title of talk:** *TBA*

**Faculty and Graduate Social**

3:00 p.m., Room 409

Coffee, Tea, Cookies

**Topology**

3:00 p.m., Room 303

*TBA*

**TUESDAY, November 27, 2001**

**VIGRE Seminar**

2:00, Room 302

**Speaker:** Students in Jason Cantarella's research group

**Title of talk:** “*Rope length experiments*”

**Abstract:** We will report on our research this fall.

**Algebraic Geometry**

3:30 p.m., Room 326

**Speaker:** Adam Parusinski, UGA, visiting from the Univ. of Angers

**Title of talk:** “Newton polygon relative to an arc”

**Abstract:** The classical method of Newton polygon gives a parametrisation of each branch of complex plane curve near its singular point. We define its generalisation relative to a complex arc. Philosophically speaking, the Newton polygon relative to an arc  $\lambda$  of a function  $f$  exposes  $f$  in a horn neighbourhood of  $\lambda$ . We apply it to study polar curves,  $\{L\}$ ojasiewicz exponents, and singularities at infinity.

**Student Number Theory**

3:30 p.m., Room 303

**Speaker:** Eric Pine, University of Georgia

**Title of talk:** *"Taxi!"*

**WEDNESDAY, November 28, 2001****Group Representation & Cohomology**

2:30 - 3:30 p.m., Room 410

**Speaker:** Blake Hindman, University of Georgia

**Title of talk:** *"Nilpotents in representation rings for  $p$ -groups"*

**Faculty and Graduate Social**

3:00 p.m., Room 409

Coffee, Tea, Cookies

**Teacher Education Seminar**

3:30-4:30 pm, Room 328 Boyd

**Speakers:** Panel Members: Sandy Bouldin, Marc Lewis, Clint McCrory, Elliot Gootman, Nicholas Oppong, Pat Wilson

**Title of talk:** *"Teacher Preparation & High School Mathematics: A Good Fit??"*

**Abstract:** A panel consisting of high school teachers and professors from the Departments of Mathematics and Mathematics Education will discuss the high school mathematics curriculum in Georgia and the curriculum for the preparation of teachers at UGA. We wish to raise issues about both curricula and methods of instruction. Bring your comments and questions!

**Representation Theory**

3:30 p.m., Room 302

**Speaker:** TBA

**Title of talk:** *TBA*

**Numerical Analysis**

3:30 p.m., Room 410

**Speaker:** Victoria Baramidze, University of Georgia

**Title of talk:** *"Spherical Spline", (cont.)*

## **THURSDAY, November 29, 2001**

### **VIGRE Seminar**

2:00, Room 302

**Speaker:** Students in Jo Hoffacker's research group

**Title of talk:** "*Time scale investigations*"

**Abstract:** There will be a short reminder of differentiation on time scales (and what they are), followed by reports from each of the research teams. Each team picked a different area to look into and will tell you about their techniques and what they hope to show. While these are very preliminary reports at this stage, the results are promising.

## **FRIDAY, November 30, 2001**

### **Geometry**

2:30p.m., Room 322

**Speaker:** Joe Fu, University of Georgia

**Title of talk:** "*Ropelength criticality revisited*"