

**MATHEMATICS DEPARTMENT SEMINAR SCHEDULE**  
**August 27 - 31, 2001**

**MONDAY, August, 27, 2001**

**Group Representation & Cohomology**

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

**Speaker:** Dan Nakano, University of Georgia

**Title of talk:** *'From finite Chevalley groups to algebraic groups'*

**Faculty and Graduate Social**

3:00 p.m., Room 409

Coffee and Cookies

**Number Theory**

3:30 p.m., Room 304

**Speaker:** Andrew Granville, University of Georgia

**Title of talk:** *Problem session*

**Abstract:** Bring your problems, especially mathematical ones

**Topology**

3:00 – 5:00p.m., Room 303

**Speaker:** Will Kazez, University of Georgia

**Title of talk:** *"Classifying tight contact structures"*

**Analysis**

4:40 p.m., Room 410

**Speaker:** Jo Hoffacker, University of Georgia

**Title of talk:** *'Taylor's Theorem on Time Scales'*

**Abstract:** We will explore the requirements to generate a version of Taylor's Theorem on the general setting of a time scale (nonempty closed subset of the reals).

**TUESDAY, August 28, 2001**

**VIGRE**

Room 302, 2:00 p.m.-3:15 p.m.

**Speaker:** Jo Hoffacker, University of Georgia

**Title of talk:** *'Time scales, what are they good for?'*

**Abstract:** Have you ever wanted to differentiate on the Cantor set instead of the real line? Do you want to learn about a relatively new area that has applications in biology, numerical analysis, and radar analysis? Then this talk is for you! We will generalize the concept of the derivative as taught in Math 2200 to some really odd sets, and see what comes of it.

**Algebraic Geometry**

3:30 p.m., Room 326

**Speaker:** Bill Rulla, University of Georgia**Title of talk:** *'The rational maps admitted by  $\overline{M}_3$ '***Student Number Theory**

3:30 p.m., Room 303

*No meeting this week***WEDNESDAY, August 29, 2001****Group Representation & Cohomology**

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

**Speaker:** Dan Nakano, University of Georgia**Title of talk:** *"Cohomology for modules over finite Chevalley groups, algebraic groups and Frobenius kernels"***Faculty and Graduate Social**

3:00 p.m., Room 409

Coffee, Tea, Cookies

**Arithmetic Geometry**

3:30 p.m., Room 304

*No meeting this week***Numerical Analysis**

3:30 - 4:30, Room 410

**Speaker:** Gerard Awanou, University of Georgia**Title of talk:** *'Introduction to trivariate splines'***Representation Theory**

3:30 p.m., Room 524

**Speaker:** Ken Johnson, University of Georgia**Title of talk:** *'Spinors Redux'*

## **THURSDAY, August 30, 2001**

### **VIGRE Seminar**

2:00 p.m., Room 302

**Speaker:** Bill Graham, University of Georgia

**Title of talk:** 'Introduction to the flag variety'

**Abstract:** Flag varieties are geometric objects that play important roles in a number of areas of mathematics, including group theory, algebraic geometry, and combinatorics. This talk will be an introduction to the geometry and combinatorics of flag varieties.

### **Special Algebraic Geometry Seminar**

3:30 p.m., Room 304

**Speaker:** Elham Izadi, University of Georgia

**Title of talk:** '*Deformation theory - a short introduction*'

## **FRIDAY, August 31, 2001**

### **Geometry**

2:30 p.m., Room 322

**Speaker:** Clint McCrory, University of Georgia

**Title of talk:** "*Topology of the MacPhersonian*", part 2

**Abstract:** In my first talk I defined the MacPhersonian  $\text{MacP}(k,n)$  and I sketched the construction of the map from the real Grassmannian  $G(k,n)$  to the geometric realization  $|\text{MacP}(k,n)|$ . In the second talk I will describe the Schubert decomposition of  $\text{MacP}(k,n)$  and Daniel Biss' beautiful proof that the map  $G(k,n) \rightarrow |\text{MacP}(k,n)|$  is a homotopy equivalence.