

MATHEMATICS DEPARTMENT SEMINAR SCHEDULE
September 3 – 7, 2001

MONDAY, September 3, 2001

University Holiday

Group Representation & Cohomology

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

No Meeting today, please see Wednesday, Sept. 5, 2001

Number Theory

3:30 p.m., Room 304

No Meeting this week

Topology

3:00 – 5:00p.m., Room 303

No Meeting this week

Analysis

4:40 p.m., Room 410

No Meeting this week

TUESDAY, September 4, 2001

VIGRE

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

Speaker: Malcolm Adams, University of Georgia

Title of talk: *"How I Spent My Summer Vacation: A Vigre Research Experience for Undergraduates on the Exploration of Special Solutions to the Three Body Problem"*

ABSTRACT: The Three Body Problem studies the motion of three planets in space under Newtonian gravitational interaction. I will present the differential equations describing this dynamical system and talk about some of the known solutions to this system. I will also present some of the MAPLE movies produced by my undergraduate research group displaying some of these solutions and some of their properties.

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 ", cont.*

Student Number Theory

3:30 p.m., Room 303

Speaker: Jim Blair, University of Georgia

Title of talk: *"Euler-MacLaurin meet Riemann-Zeta"*

WEDNESDAY, September 5, 2001

Group Representation & Cohomology

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

Speaker: Jon Carlson, University of Georgia

Title of talk: “*Extracting generators and relations for matrix algebras*”

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: ‘*Smoothness Conditions for Trivariate Splines*’

Representation Theory

3:30 p.m., Room 524

Speaker: Ken Johnson, University of Georgia

Title of talk: “*Spinors Redux*”

CATS

4:40pm, Rm. 306 Boyd Graduate Studies

Speaker: Aaron Abrams, VIGRE Postdoctoral Fellow, Math. Dept.

Title of talk: “*Iterated random functions*”

Abstract: An iterated random function is like this: start with a family of functions (on \mathbb{R} , say), and pick a number. Then choose one of your functions randomly and apply it to the number to get a new number. Then choose another random function and apply it to the new number to get a newer number. And keep going.

This will be an elementary talk about probability. I will focus on a particular example of an iterated random function, and I'll show that it has a unique stationary distribution.

THURSDAY, September 6, 2001

VIGRE Seminar

2:00 p.m., Room 302

Speaker: Clint McCrory, University of Georgia

Title of talk: “*Organizational meeting for VIGRE research projects*”

FRIDAY, September 7, 2001

Geometry

2:30 p.m., Room 322

Speaker: Joe Fu, University of Georgia

Title of talk: *"Second derivatives almost everywhere for potentials of Lagrangian integral currents"*