

MATHEMATICS DEPARTMENT SEMINAR SCHEDULE
September 24-28, 2001

MONDAY, September 24, 2001

Group Representation & Cohomology

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

Speaker: Dave Benson, University of Georgia

Title of talk: "*Homotopy Finite Group Theory (Fin)*"

Number Theory

3:30 p.m., Room 304

Speaker: Nathan Ng, University of Georgia

Title of talk: "*Zeros spacings of the zeta function*"

Analysis

2:30 p.m., Room 322

No meeting this week

Topology

3:00 p.m., Room 303

Speaker: Aaron Abrams, University of Georgia

Title: "*Distances of Heegaard Splittings*"

4:00 p.m., Room 303

Speaker: Professor Juergen Eichhorn, University Greifswald

Title: "*New Invariants for Open Manifolds*"

Abstract: We develop several new (co)-homologies which essentially take into account the openness. Examples are Gromov-Hausdorff cohomology, Lipschitz cohomology and several functional cohomologies. It is possible to define L_p -cohomology rings, L_2 -intersection, and in some cases an L_2 -signature. A spectral gap above zero now is an invariant under uniformly proper bounded homotopy equivalences.

TUESDAY, September 25, 2001

VIGRE

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

Speaker: Ming-Jun Lai, University of Georgia

Title of talk: "*Bivariate Splines for Surface Design*"

Abstract: We first introduce bivariate splines over arbitrary triangulations. Bernstein-Bezier polynomials will be used to represent these splines. We will explain how to evaluate, take derivatives, and compute integration of these splines. We then discuss how to construct interpolatory spline surfaces using several methods such as the minimal energy method, discrete least squares method, smoothing spline method, and L_1 -spline method. Some numerical experiments will be shown.

Algebraic Geometry

3:30 p.m., Room 326

Speaker: Jihun Park, University of Georgia

Title of talk: *"Birational maps of local Del Pezzo fibrations", continued*

Abstract: "We will show that if two del Pezzo fibrations of degree $d < 5$ over a discrete valuation ring have irreducible and reduced special fibers with mild singularities, then there is no birational map between them."

Student Number Theory

3:30 p.m., Room 303

No meeting this week

WEDNESDAY, September 26, 2001**Group Representation & Cohomology**

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

Speaker: Dave Hemmer, University of Georgia

Title of talk: *"The Ext^1 quiver for hook and completely splittable representations of the symmetric group"*

Teacher Education Seminar

2:30 - 3:30 pm, Room 303.

No meeting this week

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: *"Numerical Solution of 3D Stokes Equations"*

Representation Theory

3:30 p.m., Room 524

Speaker: Bill Graham, University of Georgia

Title of talk: *"Kazhdan-Lusztig polynomials, continued."*

CATS

4:40pm, Rm. 306 Boyd Graduate Studies

Speaker: Bob Robinson, Computer Science Dept.

Title of talk: “*Counting unicyclic connected identity graphs*”

THURSDAY, September 27, 2001

VIGRE Differential Equations Seminar

2:00 p.m., Room 326

Title of talk: “*Time Scales*”

FRIDAY, September 28, 2001

Geometry

2:30 p.m., Room 322

Speaker: Nancy Wrinkle, University of Georgia

Title of talk: “*Regularity and flow for Möbius energy of curves, after Z-x He*”, Part 2