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Mathematics and Statistics

**Seminars & Colloquium**

**February 27 – March 2**

**Colloquium:**

**Dr. Ray Hoobler**

***City College of New York***

“An Algebraic Application of Differential Equations**”**

Thursday, March 1, 2012 at 3:30 p.m. in CH 113

Refreshments will be served in Math 238 at 3:00 p.m.

**Monday –February 27**

**Logic-Topology Seminar**

Location: MATH 013

Time: 3:00-4:00pm

Speaker: Wayne Lewis

Topic: Introduction to Inverse Limits

**GK-12 Seminar**

Location: MATH 017

Time: 4:00-5:00pm

Speaker: Discussion

Topic: How do the different STEM disciplines think about research?

**Geometry Seminar**

No Seminar This Week

**Statistics Seminar**

No Seminar This Week

**Analysis Seminar**

Location: MATH 016

Time: 4:00-5:00pm

Speaker: Alexander Solynin

Topic: Equilibrium measures, zeros of polynomials and quadratic differentials. Part V

**Tuesday – February 28**

**Biomathematics Seminar**

Location: MATH 012

Time: 3:30-4:30pm

Speaker: Lisha Wang

Topic: Bifurcation Analysis of Flour Beetle Population Growth Equations

**Wednesday – February 29**

**Applied Math Seminar**

Location: MATH 016

Time: 4:00-5:30pm

Speaker: Indika Wijayasinghe

Topic: Eye/Head Movement Dynamics Satisfying the Donders’ Law

**Control Theory Seminar**

No Seminar This Week

**Thursday – March 1**

**Noyce Scholars & Math Education Seminar**

Location: MATH 115

Time: 11:00am-12:00pm

Speaker: Vazgen Zakaryan

Topic: Does teacher gender affect student learning?

**Friday – March 2**

**Algebra Seminar**

Location: MATH 111

Time: 4:00-5:00pm

Speaker: Ray Hoobler

Topic: "Deformation Theory of Azumaya Algebras"

Abstract:

I will discuss the differential Brauer group of a differential ring R. This requires a procedure for extending partial derivatives of R to partial derivatives of Azumaya algebra A over R.

A cohomological interpretation is then provided by piecing together local solutions to differential equations to get a global cohomology class. How Lie algebras show up in the algebraic setting