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Mathematics and Statistics

**Seminars & Colloquium**

**April 11 - 15**

**Colloquium:**

**No Colloquium This Week**

**Monday – April 11**

**Geometry Seminar**

Time: 4:00-5:00pm

Location: MATH 010

Speaker: Razvan Gelca

Title:"Representations of the Kauffman bracket skein algebra of the punctured torus"

**Stats Seminar**

Time: 4:00-5:00pm

Location: MATH 011

Speaker: Kamal Chanda

Title: On Some Ideas Relating to Probability and Statistics on Manifolds

**Tuesday – April 12**

**Bio-Math Seminar**

Time: 3:30-4:30pm

Location: MATH 010

Speaker:  Lih-Ing Roeger

Title: Optimal Control Applied to Biological Models--Chap 23 Discrete Time Models

**Logic-Topology Seminar**

Time: 2:30-3:30pm

Location: CHEM 101

Speaker:  Robert Byerly

Title: BRT

**Wednesday – April 13**

**Analysis Seminar**

Time: 4:00-5:00pm

Location: MATH 112

Speaker: Roger Barnard

Title: Conformal Mapping and Half-Plane Capacity. Part IV

**Applied Math Seminar**

Time: 4:00-5:00pm

Location: MATH 016

Speaker: Kevin Long

Title: Building a better solver: software engineering aspects of high-performance scientific computing. II

**Stochastic Control Seminar**

Time: 4:00-5:00pm

Location: MATH 109

Speaker:  Clyde Martin  
Title: Lecture: 6 - Jump Processes

**Thursday – April 14**

**Friday – April 15**

**Algebra Seminar**

Time: Friday 4:00-5:00pm

Location: MATH 110

Speaker: Alastair Hamilton

Title: Moduli spaces of Riemann Surfaces and the cohomology of Lie algebras II

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| Abstract:  There is a theorem, due to Kontsevich, which states that the cohomology of the moduli space of Riemann surfaces can be equivalently expressed as the cohomology of a certain infinite-dimensional Lie algebra. In these two talks I plan to explain this theorem and how it may be extended to certain compactifications of the moduli space. I will also, time permitting, describe how this theorem can be used to produce classes in the moduli space from purely algebraic data, and how the problem of lifting classes to compactifications of the moduli space may be formulated in terms of algebraic deformation theory. |  | |
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**Math Education/Noyce Scholars seminar**

Time: Friday 12:00-12:50pm

Location: MATH 011

Speaker: Discussion

Topic: Mentoring and cohort building