



INFO SHEET

November 29, 2011

QUEEN'S UNIVERSITY AT KINGSTON
Department of Mathematics and Statistics
<http://www.mast.queensu.ca>

CALENDAR		
Wednesday, November 30	Curves Seminar Time: 3:30 p.m. – 5:00 p.m. Place: Jeffery 319	Speaker: Tony Geramita Title: The final Link: Inverse Systems and Secant Varieties to the Veronese Varieties Abstract Attached
Friday, December 2	Department Colloquium Time: 2:30 p.m. Place: Jeffery 234	Speaker: Luca Chinatini, University of Siena, Italy Title: On the Geometry of Tensors Abstract Attached
Monday, December 5	Seminar on Free Probability and Random Matrices Time: 4:30 p.m. – 6:00 p.m. Place: Jeffery 222	Speaker: James Mingo, Queen's University Title: Second Order R-diagonal Operators, Part II Abstract Attached

Items for the Info Sheet should reach Anne (burnsa@mast.queensu.ca) by noon on Monday. The Info Sheet is published every Tuesday.

To be included on the exam cover page: PLEASE NOTE: “Proctors are unable to respond to queries about the interpretation of exam questions. Do your best to answer exam questions a written.”

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Wednesday, November 30, 3:30 Jeffery 319

Curves Seminar

Speaker: Tony Geramita

Title: The final Link: Inverse Systems and Secant Varieties to the Veronese Varieties

Abstract: This week I will explain the link between the various objects we have been studying over the past weeks and find the connection which tells us how to solve the Waring Problem for polynomial rings.

Friday, December 2, 2:30 p.m. Jeffery 234

Department Colloquium

Speaker: Luca Chinatini

Title: On the Geometry of Tensors

Abstract: The theory of tensors is connected with the study of statistical systems, in particular where the variables have only few possible states. Recently, geometrical developments on the theory of secant varieties allowed some theoretical advances on our knowledge of spaces of tensors of given rank. I will introduce the projective treatment of spaces of tensors, and present some new results on the subject, mainly concerned with the identifiability problem.

Monday, December 5, 4:30 p.m. Jeffery 222

Seminar on Free Probability and Random Matrices

Speaker: James Mingo

Title: Second Order R-diagonal Operators, Part II

Abstract: Nica and Speicher introduced an important class of operators they called R-diagonal. This is a class that includes non-normal operators but which have tractable spectral theory. I will discuss what is known about these operators and then some new work with Octavio Arizmendi on how to extend the results of Nica and Speicher to the second order case.

Seminar web site: <http://www.mast.queensu.ca/~mingo/seminar/>