ALGEBRA SEMINAR TALK

FRIDAY, MARCH 20, 2009

TONY BAHRI

Department of Mathematics
Rider University

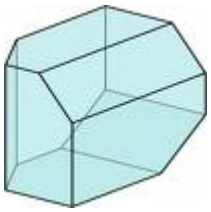
3:30 P.M. – Middlesex College Room 106

"Algebras related to Borel constructions in toric geometry and topology"

Abstract: Toric spaces have associated to them Borel constructions with respect to the actions of various tori. The cohomology (corresponding to complex-oriented theories) can be related to Stanley-Reisner rings, rings of piecewise polynomials and associated quotients. Examples exist for which the distinction between a ring of piecewise polynomials and the Stanley-Reisner ring mirrors that between the true orbit space and the Borel construction. The discussion will include also a short overview of work in progress on the KO-theory of these spaces. The material is based on joint work with Matthias Franz and Nigel Ray and touches on additional joint work with Martin Bendersky, Fred Cohen and Sam Gitler.


Armand Borel


Matthias Franz




Fred Cohen

How to enjoy life? How to travel and see places such as Moscow, Manchester, Rochester and Osaka? A great way is to plunge into toric geometry and topology, and to study weighted projective spaces and their equivariant cohomology with respect to toric action. In this way you will enjoy not only some amazingly beautiful, mysterious, and often seductively puzzling problems, but also enjoy great places, joyful society, and delicious, mouth-watering cuisine. This Friday, none other than Tony Bahri – one of the key specialists in this area - will introduce us to this exciting world of mathematical wonder, beauty and glamour.

ALL ARE WELCOME! ☺