



IMS September Meeting 2007 Seminar

Title: On spaces of rational curves and their cohomology

Speaker: Anca Mustata

Date: Tue 4th September 2007 at 9:30AM

Location: ENG226

Abstract: Kontsevich and Manin have introduced the moduli spaces of stable maps to parametrize curves in complex projective manifolds. Cohomological computations on these moduli spaces have provided solutions to important enumerative problems regarding curves. In this talk I will describe a new construction of the Kontsevich-Manin spaces for rational curves, starting from the simpler example of the Grassmannian of lines in the projective space. This new construction allows us to understand the structure of their cohomology rings in a natural, geometric way. This talk is based on joint work with Andrei Mustata.

<http://maths.ucd.ie/ims07>