

THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research

Department of Mathematics

MINI COURSE

Hilbert schemes and syzygies of algebraic curves

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Abstract

In the mid 80's, Green and Lazarsfeld conjectured that one can determine the gonality of an algebraic curve from the minimal graded resolution of the coordinate ring of sufficiently very ample line bundle on the curve. Using the geometry of the symmetric products of the curve, Lazarsfeld and I recently show that this is indeed the case.

Lecture 1:	January 6, 2014 (Monday) 3:30 – 5:00pm
Lecture 2:	January 8, 2014 (Wednesday) 3:30 – 5:00pm

Room 210, Run Run Shaw Bldg., HKU

All are welcome