

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

On Milnor classes and a duality in the Chow group

Dr. James Fullwood
The University of Hong Kong

Abstract

We present our recent formula for Milnor classes of complete intersections via the Segre class of their singular subschemes. We then present a class of involutions in the Chow group of a variety and show how these lift to Fourier-Mukai transforms which induce involutive autoequivalences of the corresponding derived category. Moreover, these involutions elucidate recently discovered symmetric relationships between Milnor classes of hypersurfaces and their so-called Le cycles.

Date: November 8, 2013 (Friday)

Time: 3:30 – 4:30pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome