

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

What is the motivic Chern class transformation ?

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Abstract

The motivic Chern class transformation is a natural transformation from the functor of relative Grothendieck group of varieties to the functor of K -group of coherent sheaves. It unifies three classical characteristic class transformations, namely, the Chern class transformation of Schwartz and MacPherson, the singular Todd class transformation and the L -class transformation. I will give a brief description of the general theory, and indicate how to compute the motivic Chern classes of some special hypersurfaces.

Date: January 17, 2017 (Tuesday)

Time: 4:00 - 5:00pm

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

All are welcome