THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Some recent progress on Frobenius splitting method

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Abstract

Frobenius splittings were introduced by Mehta and Ramanathan in 80's. A variety which admits Frobenius splitting has remarkable geometric and cohomological properties (for example, it has nice singularities and all the higher cohomologies of ample line bundles are zero). It is quite interesting that many varieties arising from representation theory admit Frobenius splitting. We will report some recent advances in this talk.

Date: October 27, 2009 (Tuesday)

Time: 3:00 – 4:00pm

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

All are welcome