THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Moduli space of vector bundles and Frobenius splitting

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Abstract

Frobenius splitting is an important property in positive algebraic geometry. In this talk, we will introduce a result of Mehta and Ramadas, which uses the degeneration way to prove the Frobenius splitting of moduli of vector bundles over generic curves. We also study the moduli space of vector bundles over a smooth complex curve, and prove that its mod p reduction is Frobenius splitting for p large enough. This is a joint work with Professor Xiaotao Sun.

Date: October 28, 2016 (Friday)

Time: 1:30 – 3:00pm

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

All are welcome