THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research Department of Mathematics

GEOMETRY SEMINAR

Some problems on finite covers of algebraic surfaces

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Abstract

The classical language of finite covers of algebraic surfaces is the theory of algebraic functions of two variables. The main unsolved problem is to establish the Existence Theorem of Riemann for algebraic functions of two variables. I will talk about some related problems and their applications in algebraic surfaces., for example, the existence theorem for cubic algebraic functions, the characterization of some surfaces singularities of multiplicity three (joint work with Jun Lu), and a construction of families of hyperelliptic curves of genus g with maximal slopes (joint work with Xiao-Lei Liu).

> Date: May 4, 2012 (Friday) Time: 4:30 – 5:30pm Place: Room 210, Run Run Shaw Bldg., HKU

> > All are welcome