THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research Department of Mathematics

Geometry Seminar

July 30, 2004 (Friday) 517 Meng Wah Complex, HKU

3:00 – 4:00pm

Professor Mark Andrea de Cataldo
SUNY at Stony Brook, USA
The Hodge theory of algebraic maps

4:00 – 4:20 pm

Tea Break

4:20 – 5:20pm

Professor Robert Lazarsfeld

University of Michigan, Ann Arbor, USA Some old results on linear series

All are welcome

Geometry Seminar

July 30, 2004 (Friday)

Abstracts

Professor Mark Andrea de Cataldo

SUNY at Stony Brook, USA

The Hodge theory of algebraic maps

I will discuss informally some topological aspects of complex algebraic maps. I will discuss briefly the so-called Decomposition Theorem for these maps. Finally, I will survey some aspects of my recent work with Luca Migliorini (at Bologna) on new structures on the cohomology of projective varieties.

Professor Robert Lazarsfeld

University of Michigan, Ann Arbor, USA

Some old results on linear series

I'll discuss new approaches (due to various people) to some old theorems concerning linear series on algebraic varieties. This will give an occasion to explain some interesting facts and arguments that aren't as well known as they deserve to be.