



*Institute of Mathematical Research
Department of Mathematics*

COLLOQUIUM

Complex geometry of symplectic 4-manifolds

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Date: February 1, 2013 (Friday)

Time: 4:45 – 5:45pm

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

Abstract

The term “symplectic” is introduced by H. Weyl as a calque of “complex”, which indicates the intimate relations between those two. In this talk, I will explain some interplay between almost complex structure and symplectic structure. Examples include a fundamental question of S. Donaldson, a numerical criterion of cohomology classes of symplectic forms and a new decomposition of cohomology groups.

All are welcome