

*Institute of Mathematical Research**Department of Mathematics***LECTURE SERIES** **$\bar{\partial}$ -equation's role in PDE and algebraic geometry****Professor Yum-Tong Siu**

William Elwood Byerly Professor, Harvard U., USA

Abstract

Will start out with the historic work of Riemann and others on the use of electrostatic potentials in the construction of holomorphic forms and meromorphic functions on Riemann surfaces and on the application of the Cauchy-Riemann equations in problems of fluid flow. The discussion of the role of the $\bar{\partial}$ equation in partial differential equations and algebraic geometry will cover selected problems and major techniques up to the recent work on the abundance conjecture and other topics.

Colloquium Lecture:	July 18, 2011 (Monday) 4:00 – 5:00pm
Lecture 2:	July 20, 2011 (Wednesday) 3:00 – 5:00pm
Lecture 3:	July 21, 2011 (Thursday) 3:00 – 5:00pm
Lecture 4:	July 22, 2011 (Friday) 3:00 – 5:00pm

Room 210, Run Run Shaw Bldg., HKU*All are welcome*