

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## **GEOMETRY SEMINAR**

# Conformal measure of a finite type meromorphic function

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### **Abstract**

Sullivan proved the existence of conformal measure for any rational function with degree at least two over its Julia set. One may then ask what happens to transcendental meromorphic functions and this is known to be a difficult problem.

It is well-known that a meromorphic function of finite type shares many similar dynamical properties with rational functions. In this talk, we show the existence of conformal measures for such meromorphic functions. We will begin with the definition of conformal measures and explain the main reasons of looking for the conformal measures for meromorphic functions.

Date: February 6, 2012 (Monday)

Time: 4:00 – 5:00pm

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

*All are welcome*