THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Factorizations of meromorphic functions

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Abstract

Let $F(z)$ be a meromorphic function of one complex variable. An expression

$$F(z) = f(g(z)) \qquad\qquad (1)$$

with f, g meromorphic is called a factorization of F. F is said to be prime if every factorization of the form (1) implies that either f is bilinear or g is linear. In this talk, we shall show that some meromorphic functions are prime, for example, $e^z + z$, Riemann-Zeta function and Gamma function. We shall also discuss some research problems in factorization theory of meromorphic functions.

Date: February 14, 2005 (Monday)

Time: 3:00 – 4:00pm

Place: Room 517, Meng Wah Complex

All are welcome