

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : 鍾展良 Dr. Chan-Liang Chung
(Academia Sinica)

Title : *Sum formulas of multiple zeta values with arguments are multiple of a positive integer*

Abstract :

Let $\zeta(\alpha_1, \alpha_2, \dots, \alpha_k)$ be a multiple zeta value of depth k and weight $|\alpha|$. Several explicit values of multiple zeta values are interesting and known for special index sets. A principle goal in the theoretical study of multiple zeta values is to determine all possible algebraic relations among them. For $k \leq n$, let $E(mn, k)$ be the sum of all multiple zeta values of depth k and weight mn with arguments are multiple of $m \geq 2$. In this talk, an identity which is closely related to the sum relation involving multiple zeta values with even arguments will be presented. Also, I will build up some variations of multiple zeta values and investigate their relations. In particular, I will give a simple proof of the well-known sum formula of multiple zeta values and derive some generalizations.

This is joint work with K.-W. Chen and M. Eie.

Time : 11:00 – 12:30, Wednesday, November 9, 2016

Venue : Room 638, Astro-Math. Building (NTU Campus)

Organizer : Yu-Yen Chien (NCTS), Jyun-Ao Lin (Academia Sinica)

Refreshment : 10:30

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