Number Theory Mini-Course

An Introduction to the Circle Method

Part 1 2 3

Time
10:00-12:00 July 10, 2023
10:00-11:00 July 11, 2023

Venue
Room 515,
Cosmology Building, NTU

Speaker

Yu-Ru Liu
University of Waterloo

Organizer

Chun-Yen Shen
National Taiwan University

Course Outline & Descriptions

This course will focus on the basic principles of the circle method. We will start with Waring's problem about representations of positive integers as sums of fixed powers. Then we will study Vinogradov's mean value theorem about a system of equal sums of powers. If time permits, we will consider extensions of these problems to the multidimensional setting and the function field.

Contact Murphy Yu murphyyu@ncts.tw

Registration