

Time

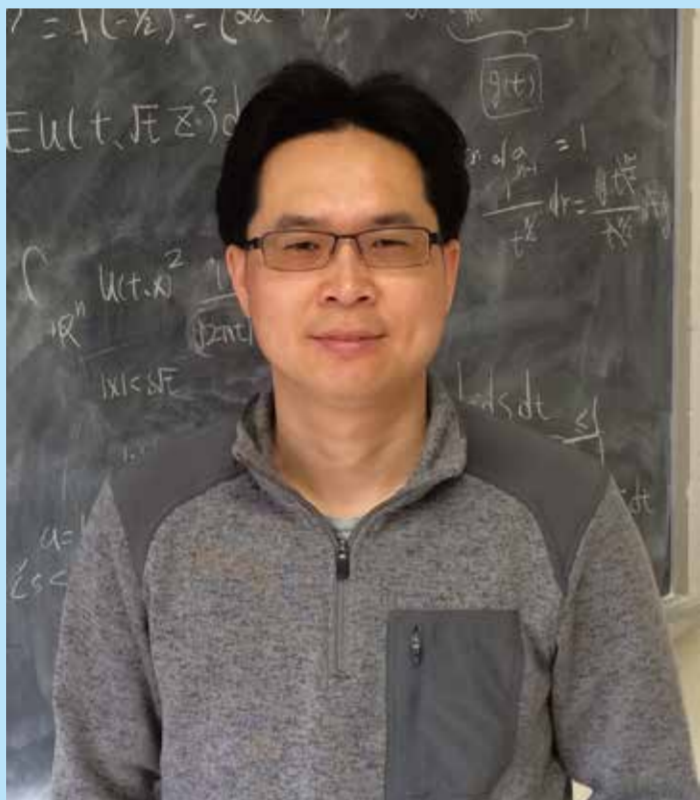
5/6 (Mon.), 5/7 (Tue.), 5/9 (Thu.)
15:30-16:45
5/8 (Wed.), 5/10 (Fri.)
10:00-11:15

Venue

Room 505+Online Meeting,
Cosmology Building, NTU



Phase Transitions and Algorithmic Hardness for the Number Partitioning Problems and Perceptron Models



Speaker

Wei-Kuo Chen
University of Minnesota

Organizers

Yuan-Chung Sheu
National Yang Ming
Chiao Tung University

Wai Kit Lam
National Taiwan University

Introduction

The main goal of this lecture series is to introduce some emerging topics, such as phase transitions and algorithmic aspects, for the number partitioning problems and perceptron models. These are fundamental models arising from computer science and neural network and known to exhibit profound structures that are mathematically challenging to study and numerically difficult to simulate. This lecture series will be a great opportunity for the young scholars including undergraduate and graduate students and junior researchers to learn and expand their research interests.

Prerequisites

Introductory probability and analysis,
both at the undergraduate level.

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Registration