



# SCMS Seminar

## **CONDITIONAL MEAN DIMENSION**

**Speaker: Professor Bingbing Liang**  
Soochow University

**Time: Monday, March 20, 2023, 16:00-17:00**

**Venue: Room 1801, East Main Guanghua Tower**

**Abstract:** As an analogue of the conditional topological entropy, the conditional mean dimension can be used to give a general upper bound of mean dimension for an extension system. This estimation is parallel to a classical result due to Hurwicz. We will first review the concept of conditional mean dimension and its properties, and discuss some related problems for the actions by an amenable group; then we will introduce the notion of conditional mean dimension in the setting of actions by a sofic group.