## **COURSE DETAIL**

## **DERIVED CATEGORIES OF COHERENT SHEAVES**

Country

Taiwan

**Host Institution** National Taiwan University

**Program(s)** National Taiwan University

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Mathematics

UCEAP Course Number 175

**UCEAP Course Suffix** 

UCEAP Official Title DERIVED CATEGORIES OF COHERENT SHEAVES

UCEAP Transcript Title COHERENT SHEAVES

**UCEAP Quarter Units** 4.50

UCEAP Semester Units 3.00

## **Course Description**

The course begins with the basics of derived categories including semiorthogonal decompositions and Fourier-Mukai transforms. The course then discusses some recent developments related to derived categories of coherent sheaves, such as homological projective duality, stability conditions, noncommutative crepant resolutions, or derived categories and GIT.

## Language(s) of Instruction

English

Host Institution Course Number MATH5275

Host Institution Course Title DERIVED CATEGORIES OF COHERENT SHEAVES

**Host Institution Campus** 

**Host Institution Faculty** 

**Host Institution Degree** 

**Host Institution Department** 

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