

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 semi-orthogonal 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 Course Details

https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=221%20U9200&c...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2022-2023

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