

# Abstract

This lecture series will be aimed at explaining some basics of homological mirror symmetry, with an emphasis on the descriptions and computations on the higher categorical structures.

Plan:

Lecture 1. Fukaya category

Lecture 2. Calculation on structure constants through examples

Lecture 3. Derived category of coherent sheaves

Lecture 4. Calculation on structure constants through examples

Lecture 5. Mirror symmetry via Fourier-Mukai transform