I M B M istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

Homological mirror symmetry for nodal stacky curves

Matthew Habermann

London School of Geometry and Number Theory

Abstract

In this talk I will explain the proof of homological mirror symmetry where the B-side is a ring or chain of stacky projective lines joined nodally, and where each irreducible component is allowed to have a non-trivial generic stabiliser, generalising the work of Lekili and Polishchuk. The key ingredient of the proof is to match categorical resolutions on the A- and B-sides by identifying them both with an intermediary category given by the derived category of modules of a gentle algebra. I will explain the strategy of constructing these resolutions on the A– and B–sides, as well as how to deduce homological mirror symmetry from this.

Date : Wednesday, March 24, 2021
Time: 10.00 EST 18.00 TSİ
Details : `http://sntp.ca/ucgen/`