

INDUCTIVE LIMIT WHICH APPEARS IN LAGRANGIAN FLOER THEORY

KENJI FUKAYA (SIMONS CENTER FOR GEOMETRY AND PHYSICS, SUNY)

Abstract: For a given symplectic manifold and a finite set of Lagrangian submanifolds which intersect transversally each other we can construct an A_∞ -category. When we consider Lagrangian submanifolds which are not necessary intersect transversally there are issues to perform such a construction. In this talk I want to explain a way to study this situation. It can be used to compose Lagrangian correspondences without assuming transversality.