

Math Postdoc Seminar - Catherine Cannizzo

Monday, April 18:3:00 – 4:00pm

SCGP 313

Speaker: Catherine Cannizzo

Title: The Clifford torus and an example of wall-crossing

Abstract: Strominger-Yau-Zaslow formulated a method to construct a mirror manifold. The input needed is a Lagrangian torus fibration, potentially with singularities, and then the mirror is built from charts. One chart suffices if the fibration is trivial, more are needed when there are singularities. "Wall-crossing" describes the transition maps for these charts, so-named from crossing a wall related to the singularity. We introduce the Clifford torus and then give an example of wall-crossing from a Clifford torus to one of Chekanov type. The references are Oh's *Floer cohomology of Lagrangian intersections and pseudoholomorphic disks I* and Auroux's *Mirror symmetry and T-duality in the complement of an anticanonical divisor*.