Speaker: Melissa Liu (Columbia University)

Title: Wall-crossing in abelian gauged linear sigma models

Abstract: The input data of a gauged linear sigma model (GLSM) consist of a GIT quotient of a complex vector space V by the linear action of a reductive algebraic group G (the gauge group) and a G-invariant polynomial function on V (the superpotential) which is quasi-homogeneous with respect to a $\mathbb{C}^*$-action (R symmetries) on V. GLSM invariants are virtual counts of curves in the critical locus of the superpotential. In this talk, I will describe GIT wall-crossing of genus-zero cohomological and K-theoretic GLSM invariants when the gauge group G is abelian, based on joint work with Konstantin Aleshkin.