

Mauricio Romo: A GLSM view on Homological Projective Duality

Saturday, May 22, 2021 10:00 AM (50 minutes)

Abstract: I will present a rather general construction of homological projective dual (HPD) pairs using gauged linear sigma models. In mathematical terms, HPD can be viewed as a tool to generate semiorthogonal decompositions. In physical terms, HPD pairs are phases of GLSMs whose categories of B-branes are related in a very precise way (and if some conditions are met, equivalent). I will mostly focus on the abelian case and, if time permits, will present a few remarks for the nonabelian case. This is based on joint work with Z. Chen and J. Guo: 2012.14109.