

7/24 [Jenny August] Stability and McKay

Through the 3-dimensional McKay Correspondence, we may associate a finite-dimensional algebra, known as a contraction algebra, to each minimal model of certain 3-fold singularities. By sitting at the intersection of the worlds of finite-dimensional algebras and geometry, contraction algebras have some remarkable properties. In this talk, I'll describe how these properties allow us to easily determine the stability manifolds of these algebras and moreover, I'll try to describe why the corresponding story for surfaces is not so simple.