

1081-14-86

Zhenbo Qin* (qinz@missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. *The Cohomological Crepant Resolution Conjecture for the Hilbert-Chow morphisms.*

In a recent joint work with Wei-Ping Li, we proved that Ruan's Cohomological Crepant Resolution Conjecture holds for the Hilbert-Chow morphisms. We will outline the two main ideas used in the proof. This talk is independent of, but related to the talk "Cohomology rings of Hilbert schemes of points on surfaces" given by the same speaker in the special session on "Geometry of Moduli Spaces of Sheaves". (Received February 01, 2012)