

Homological conjectures and excellent unique factorization domains

Ehsan Tavanfar

Shahid Beheshti University and IPM

This talk is my report on a recent paper on Hochster's Monomial Conjecture, Big Cohen-Macaulay Algebra Conjecture, Small Cohen-Macaulay Conjecture and related topics. I will, among other things, deal with some new reductions, most notably reduction to excellent unique factorization domains.