

Speaker : William Sanders (University of Kansas)

Title : SUPPORT VARIETIES AND TENSOR PRODUCT

Abstract: This work is joint with Hailong Dao. Developed by Avramov and Buchweitz, the theory of support varieties over a complete intersection ring encodes important homological information about a module into a geometric object. In this talk, we investigate the support variety of the tensor product of two modules using the geometry of the support varieties of the original modules. Furthermore, we pose questions regarding the asymptotic behavior of the support varieties of Tor modules.