



Speaker: Jonathan Montano
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Tuesday, February 26, 2013
3:00 PM
258 Hurley Hall

Title: j -multiplicity and Monomial Ideals

Abstract:

The j -multiplicity was introduced by Achilles and Manaresi in 1993 as a generalization of the Hilbert-Samuel multiplicity for arbitrary ideals in a Noetherian local ring. In this talk, I will review some of its properties and applications. I will also report joint work with Jack Jeffries, where we show that the j -multiplicity of a monomial ideal is equal to the normalized volume of a region. This result is an extension of Teissier's volume interpretation of the Hilbert Samuel multiplicity for \mathfrak{m} -primary monomial ideals.