

1167-13-267

**Janet Page\*** (jrpage@umich.edu). *Measuring Gorenstein-ness using the trace of the canonical module.*

Trace ideals can be defined for any module over a ring and have been studied in many different contexts. For a Cohen-Macaulay ring, it is particularly interesting to study the trace of a particular module—the canonical module—as it defines the locus where the ring is not Gorenstein. In this talk, I discuss some results on the trace of the canonical module for rings in which we can exploit some combinatorial data. This talk is based on joint work with Jürgen Herzog and Fatemeh Mohammadi as well as more recent joint work with Mitsuhiro Miyazaki. (Received March 08, 2021)