

1092-13-304

Livia Hummel* (hummell@uindy.edu). *A look at non-Noetherian grade.*

Several notions of grade have been developed for use in the non-Noetherian (coherent) context; early characterizations include Hochster's notion of polynomial-grade and Barger's notions of "Koszul" and "Rees" grades. Alfonsi later generalized these notions of grade. Polynomial grade, and its homological characteristics, played an important role in the development of the theories for non-Noetherian Cohen-Macaulay and Gorenstein rings. This talk will explore the connections between these non-Noetherian grades, their properties, and their applications. (Received August 12, 2013)