

1157-13-621

Matthew Toeniskoetter* (mtoeniskoetter@fau.edu), **Papiya Bhattacharjee** and **Warren McGovern**. *h-Local Rings of Continuous Functions*. Preliminary report.

The concept of an h-local domain was originally defined by Matlis, who used it to classify D-domains, and has since had a variety of applications in commutative algebra. As one of the main goals of his recent dissertation, A. Omairi showed that the notion of an h-local domain extends in a natural way to rings with zero divisors, and that most of the equivalent conditions for h-local domains carry over to this new definition. In this talk, we will give background information on rings of continuous functions and on h-local rings, then give a topological characterization for a ring of continuous functions to be an h-local ring. (Received February 04, 2020)