

1086-13-779

Craig Huneke* (clhuneke@gmail.com), **Daniel Katz** and **Javid Validashti**. *Uniform Symbolic Topologies and Finite Extensions*. Preliminary report.

A Noetherian ring R is said to have uniform symbolic topologies for prime ideals if there exists a positive integer b such that for all prime ideals P and all $n \geq 1$ there is a containment between the symbolic powers and the usual powers of P :

$$P^{(bn)} \subset P^n.$$

The main question we are interested in is whether or not every complete local domain has uniform symbolic topologies for prime ideals. In this talk we discuss how this property behaves under finite extensions. (Received September 12, 2012)