

1046-13-1255

Benjamin R Lynch* (lynch1@math.utk.edu), Department of Mathematics, University of Tennessee, Knoxville, TN 37996-1300. *Elasticity of Krull Domains with Infinite Class Groups*. Preliminary report.

One method for studying factorization properties of a Krull domain is to study the distribution of the height-one prime ideals in its divisor class group. In this talk, we will focus on infinite divisor class groups and will present results calculating the elasticity for different distributions of height-one primes. We will extend earlier results for \mathbb{Z} to $\mathbb{Z} \oplus \mathbb{Z}$ and discuss the groups \mathbb{Q} and $\mathbb{Z}(p^\infty)$. (Received September 15, 2008)