

Ehrhart rings and normality

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Let F be a finite set of monomials in a polynomial ring R over a field K and let P be the convex hull of the exponent vectors of the monomials in F . We will compare the Ehrhart ring of P with the integral closure (normalization) of the subring $K[FT]$, where T is a new variable. We will discuss the normality of various monomial subrings associated to unimodular and totally unimodular matrices