"Approximating the Complex Roots of Univariate Trinomials"
by
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We will show how the lower binomials of the Archimedean Newton Polytope of an arbitrary sparse trinomial $p(x)$ can be used to estimate the actual roots of $p$. We will give experimental evidence showing that this approximation is intimately connected to the distance between $p$ and the discriminant variety of such trinomials. Moreover, we will give a conjecture on a precise formula and its plausibility. The presentation will conclude with the implications of such a statement and the further work needed to develop a proof of the extended problem for a polynomial with an arbitrary number of terms.