

1079-14-265

Eric Katz* (eeekatz@math.uwaterloo.ca), Department of Combinatorics & Optimization,
University of Waterloo, 200 University Avenue West, Waterloo, Ontario N2L 3G1, Canada.

Log-concavity of characteristic polynomials and tropical intersection theory.

In a recent joint work with June Huh, we proved the log-concavity of the characteristic polynomial of a realizable matroid by relating its coefficients to intersection numbers on an algebraic variety and applying an algebraic geometric inequality.

In this talk, we outline that proof which involves algebraic geometric positivity. (Received January 16, 2012)