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Effective Khovanskii Theorems

Let A be a subset of the d dimensional integer lattice and NA be the N -fold sumset. In 1992, Khovanskii proved that $|NA|$ can be written as a polynomial in N of degree at most d , provided N is sufficiently large. We provide an effective bound for “sufficiently large”, and discuss some related results. This is joint work with Andrew Granville and Aled Walker.