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Quasipolynomials and their Convolution

Abstract for the Combinatorics Seminar 2005 February 10

I will define a quasipolynomial and its generating function. In a convolution of quasipolynomials with degrees d and e and periods p and q , the leading term (degree $e+f+1$) has period $\gcd(p,q)$, smaller than the expected value of $\text{lcm}(p,q)$. Sometimes, this leading term is zero; I will characterize such cases by means of the null space of a circulant matrix.

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