

Group Seminar
Symbolic Computation

Beyond generating functions

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Abstract

We represent certain functions on a lattice \mathbb{Z}^d by a discrete Fourier-Borel transform of a distributions μ on \mathbb{C}^d . For functions satisfying constant coefficient difference equations, μ can be chosen to have compact support in the zero set of the corresponding characteristic polynomials thus extending a well known result for $d = 1$. We also discuss the situation for partially holonomic functions.